


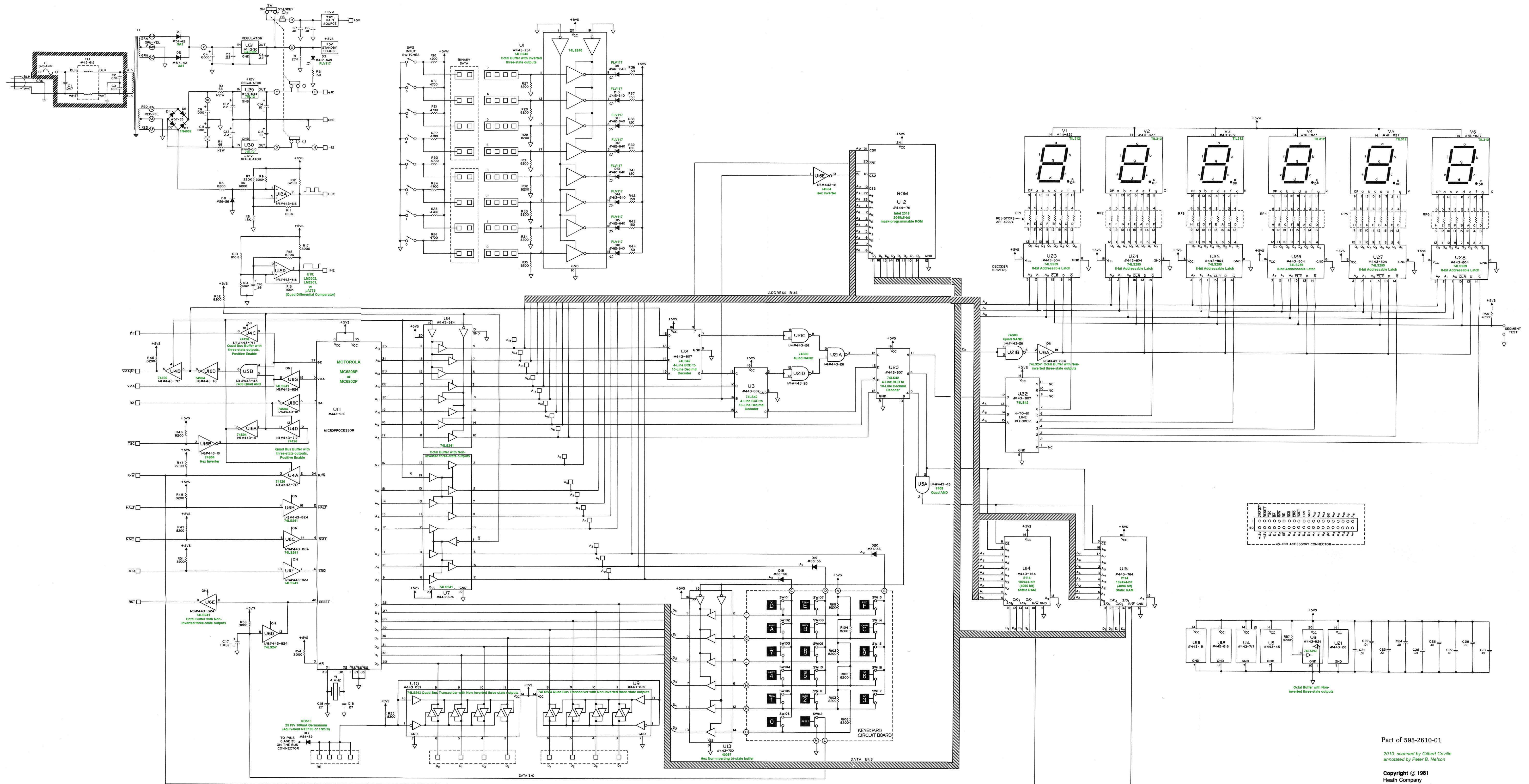
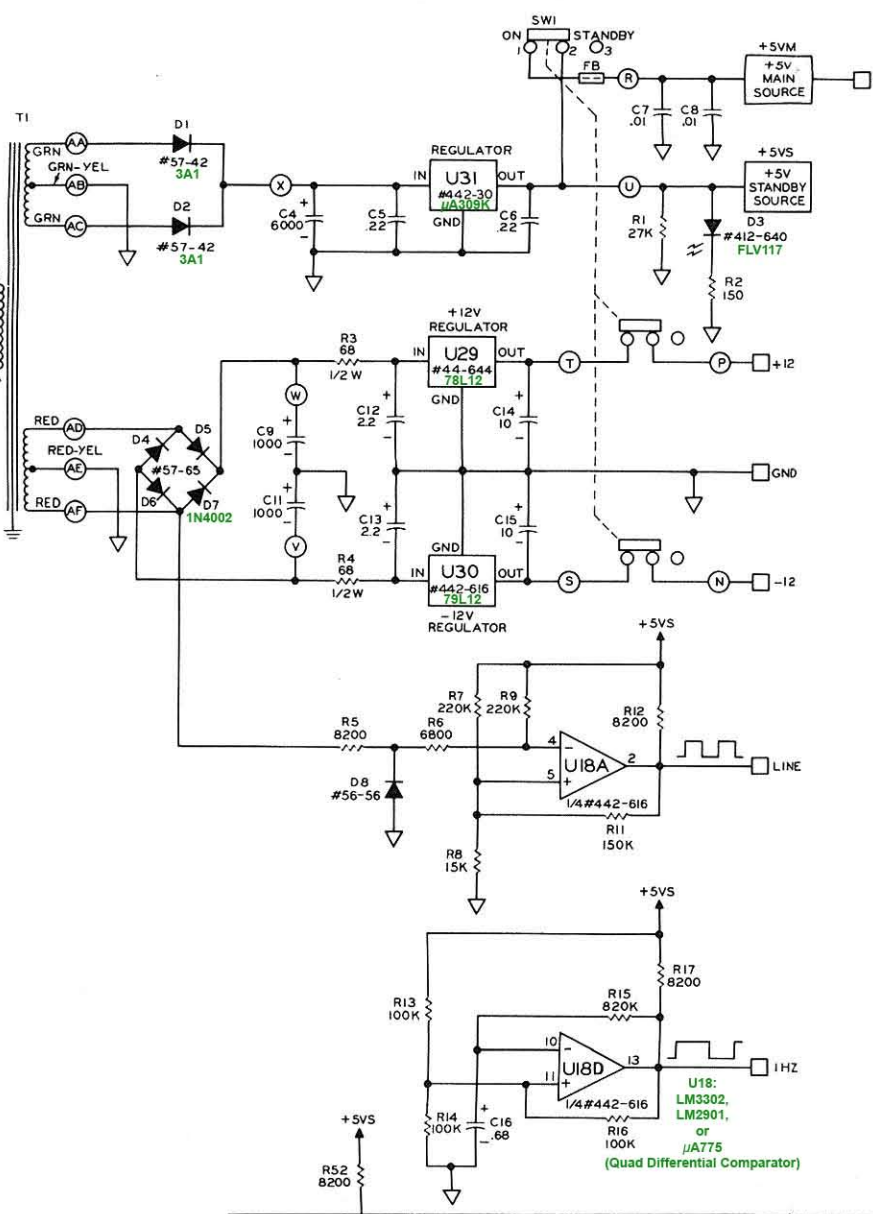
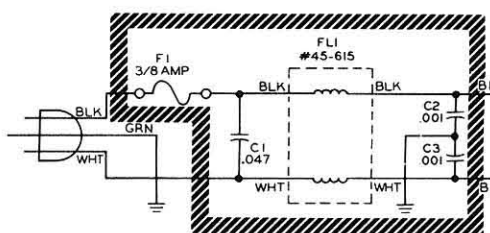
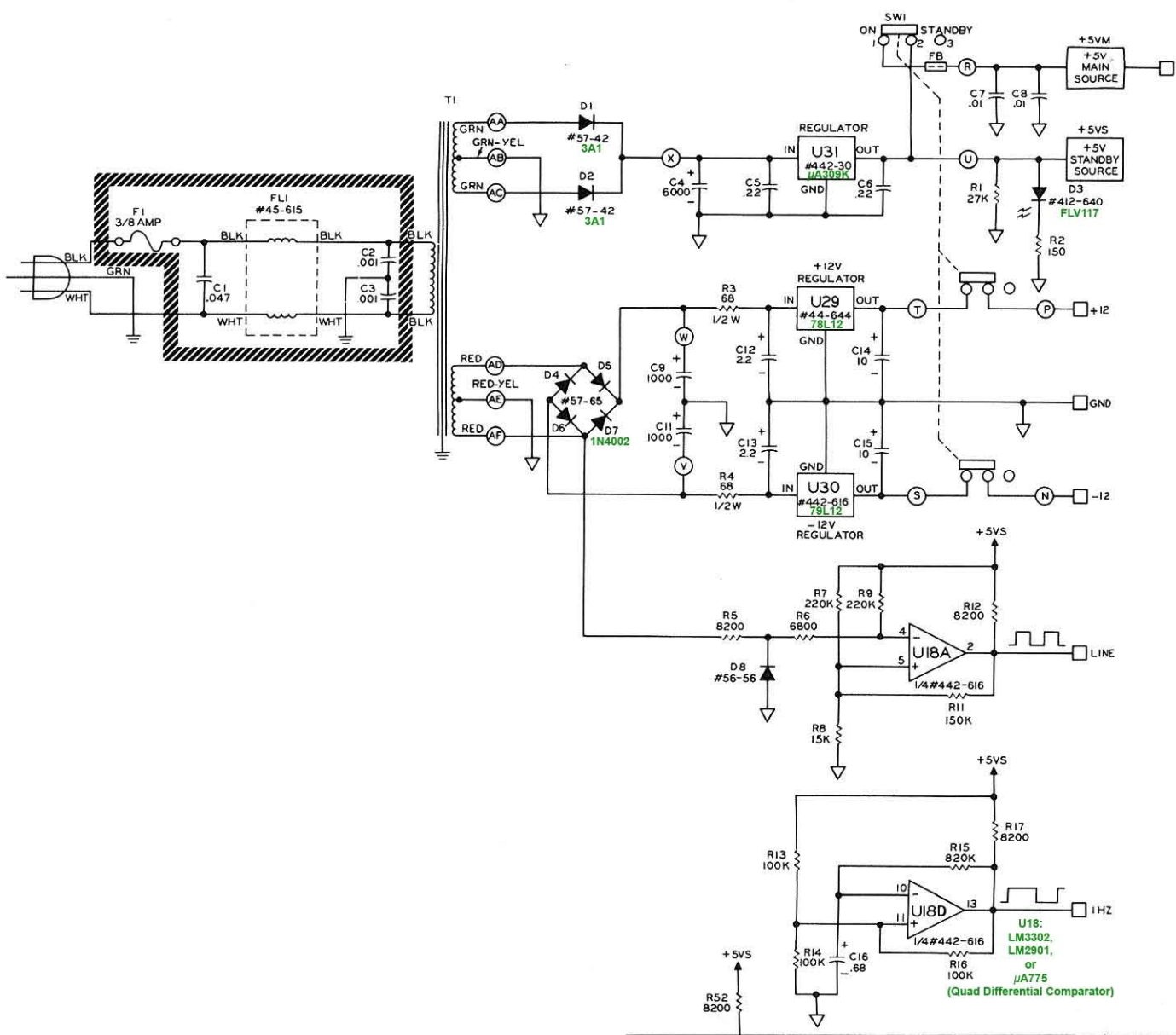


# SCHEMATIC OF THE HEATHKIT® MICROCOMPUTER LEARNING SYSTEM Model ET-3400A

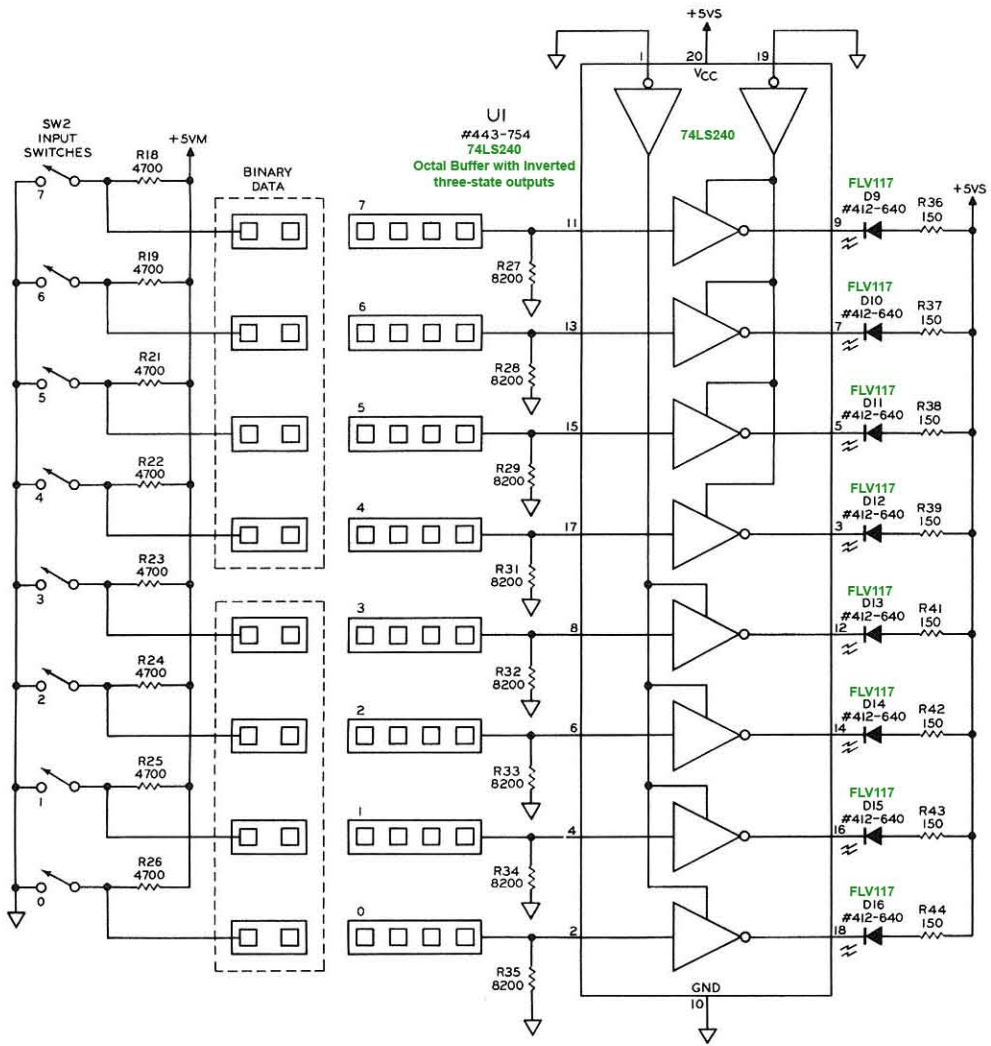
**NOTES:**

1. ALL RESISTORS ARE RATED AT 1/4-WATT AND HAVE A 5% TOLERANCE UNLESS NOTED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K=1000).
2. CAPACITOR VALUES LESS THAN 1 ARE IN  $\mu\text{F}$  (MICROFARADS); CAPACITOR VALUES GREATER THAN 1 ARE IN  $\text{PF}$  (PICOFARADS) UNLESS OTHERWISE NOTED.
3.  THIS SYMBOL INDICATES A DC VOLTAGE TAKEN WITH A HIGH IMPEDANCE INPUT VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES MAY VARY  $\pm 20\%$ .
4.  THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
5.  THIS SYMBOL INDICATES A CONNECTOR IN A CONNECTOR BLOCK.
6. COMPONENTS IN THE SHADED AREA ARE CRITICAL TO CONTINUED PRODUCT SAFETY. REPLACE THEM ONLY WITH PARTS OF THE SAME RATING OR WITH PROPER HEATH REPLACEMENT PARTS.
7. IF YOU INSTALL THE 40-PIN ACCESSORY CONNECTOR, USE JUMPER WIRES TO CONNECT THE DATA LINES.





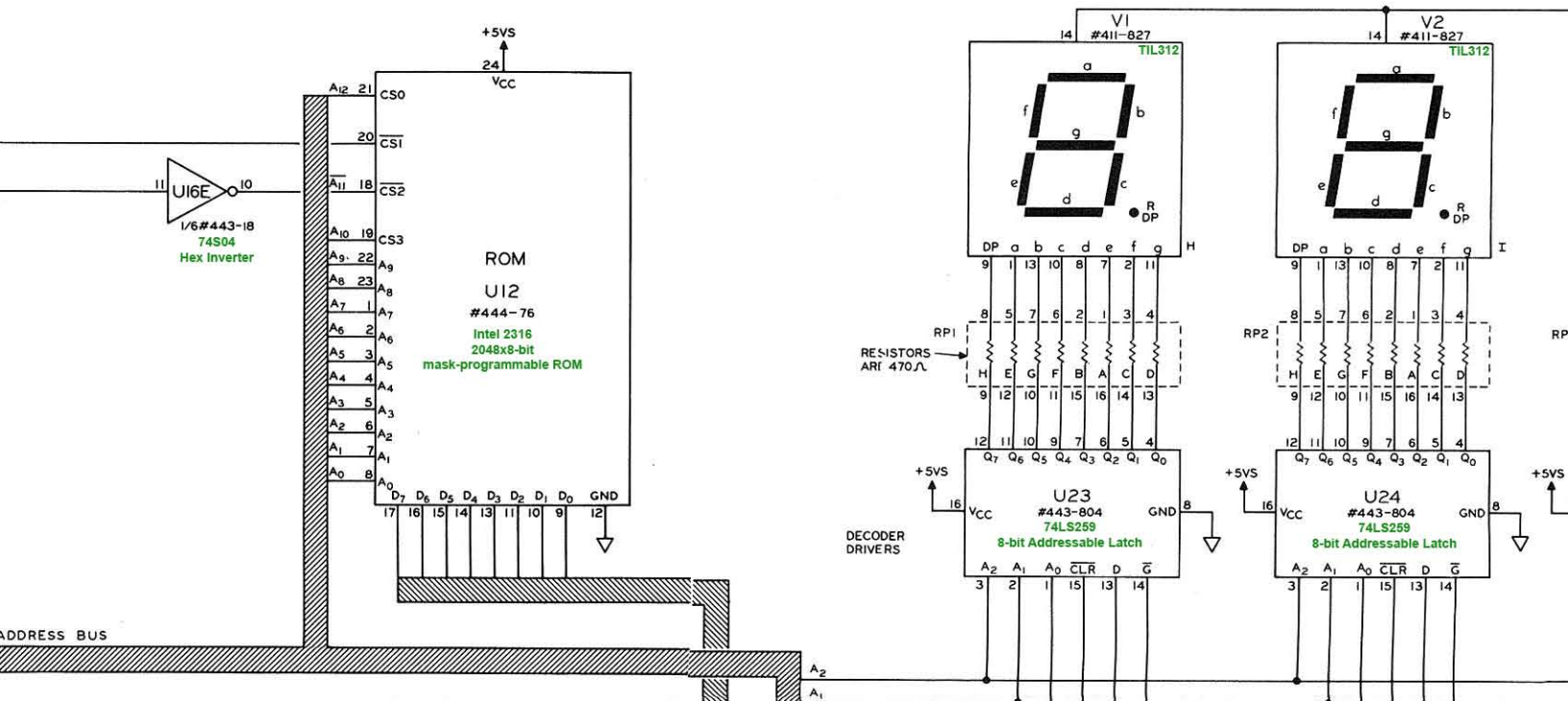
U18: LM3302, LM2901, or  $\mu$ A775 (Quad Differential Comparator)



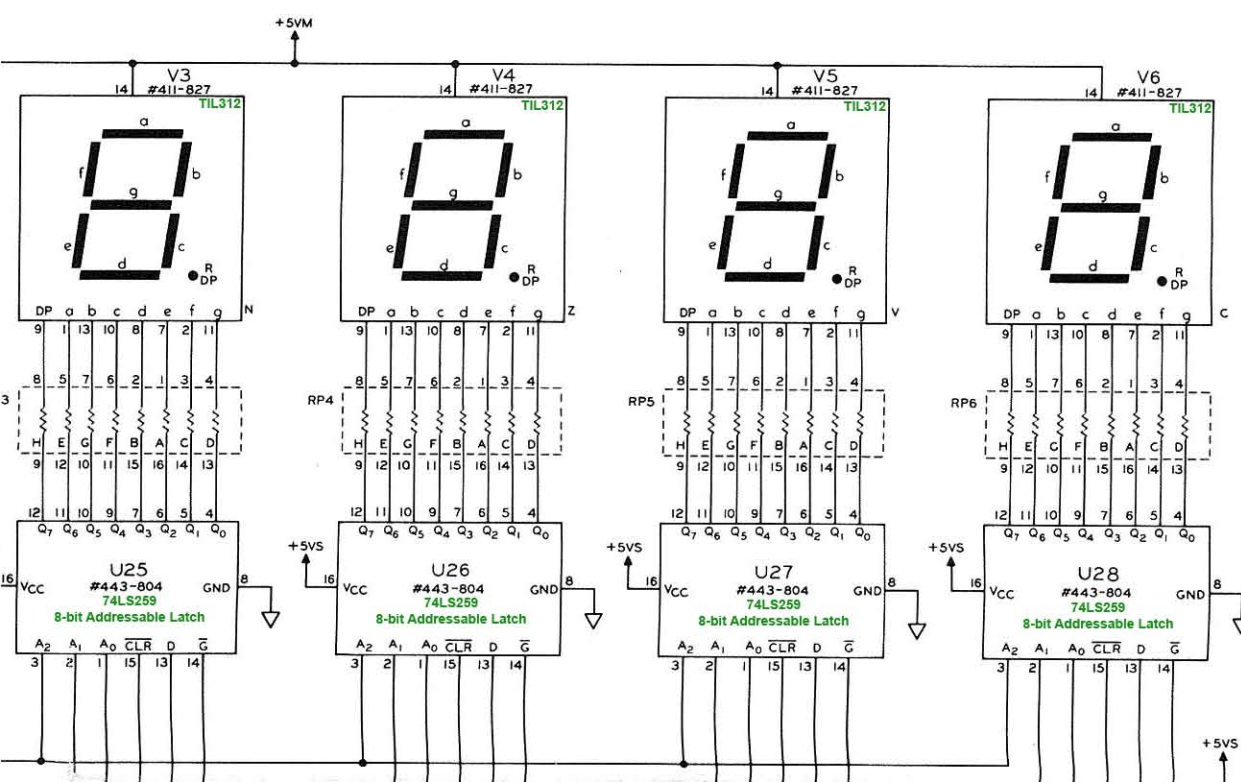
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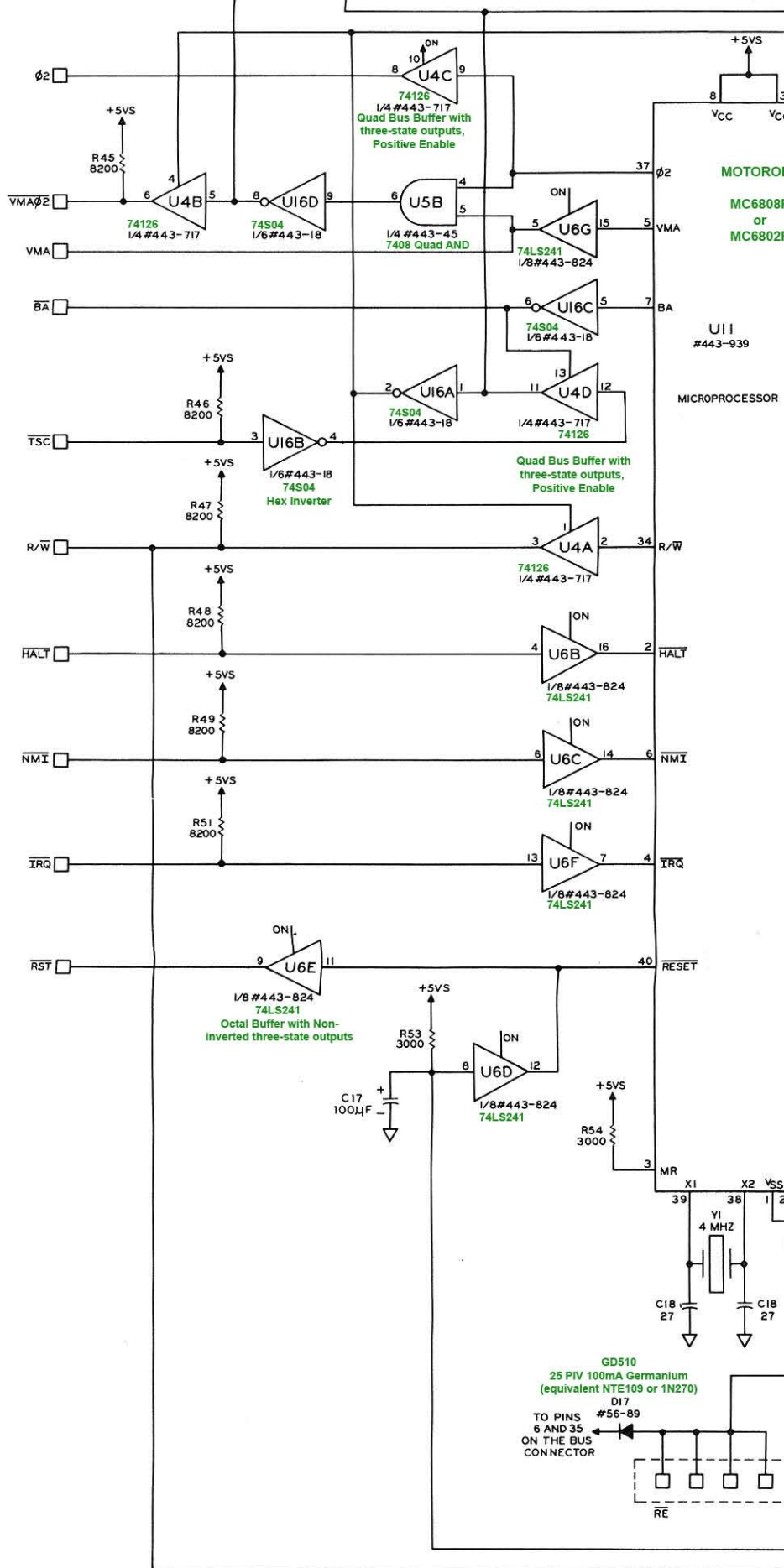
**NOTES:**

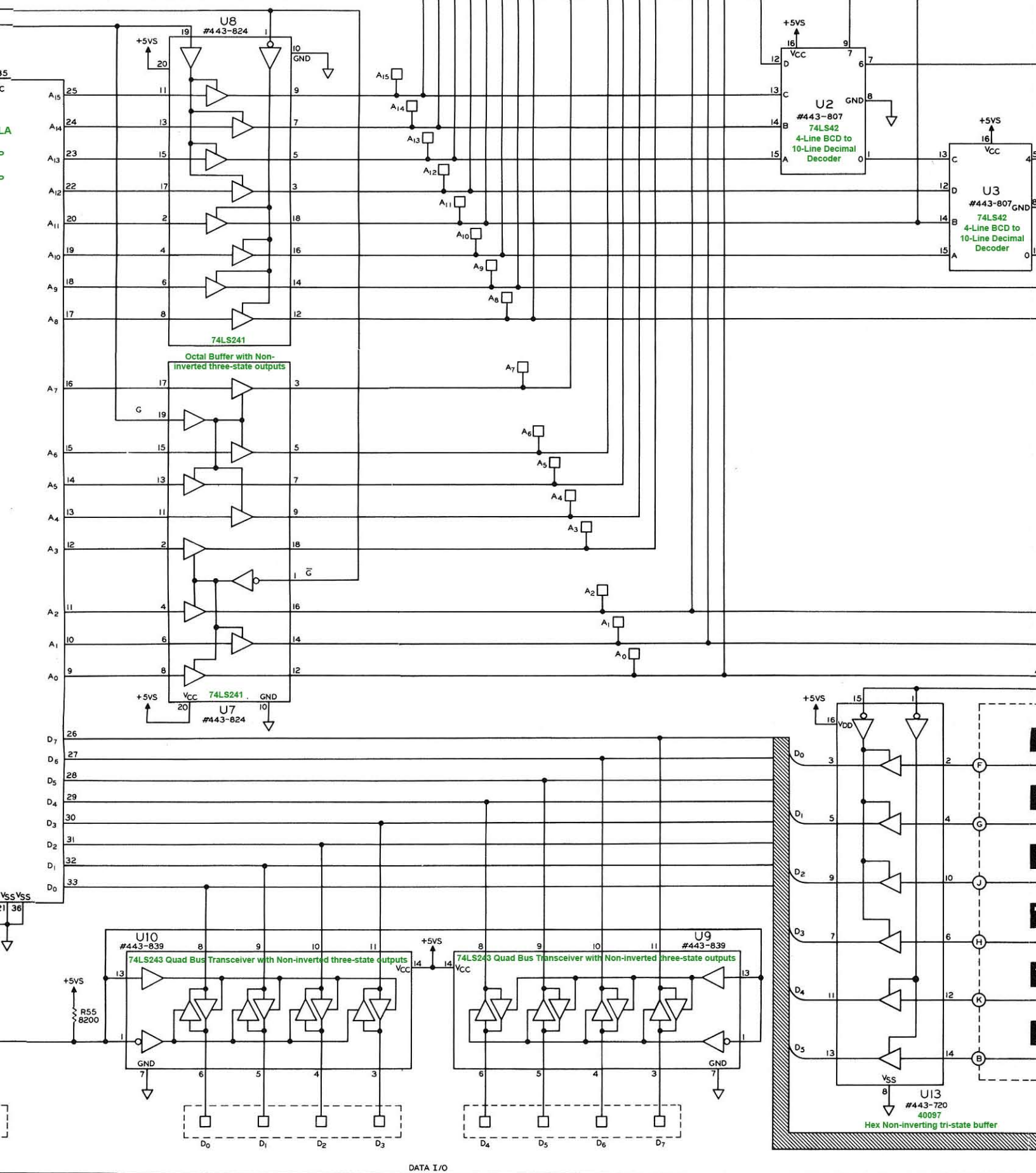
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4. ▽ THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
5. □ THIS SYMBOL INDICATES A CONNECTOR IN A CONNECTOR BLOCK.
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7. IF YOU INSTALL THE 40-PIN ACCESSORY CONNECTOR, USE JUMPER WIRES TO CONNECT THE DATA LINES.



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DATA I/O

