

# LABORATORY 4

Please print this sheet prior to coming to laboratory. Complete the pre-laboratory tasks in your lab notebook. Complete the lab tasks in **both** your lab notebook and this submission sheet.

## 1 Pre-laboratory Verification

3E -- 21

3E -- 22

3E -- 23

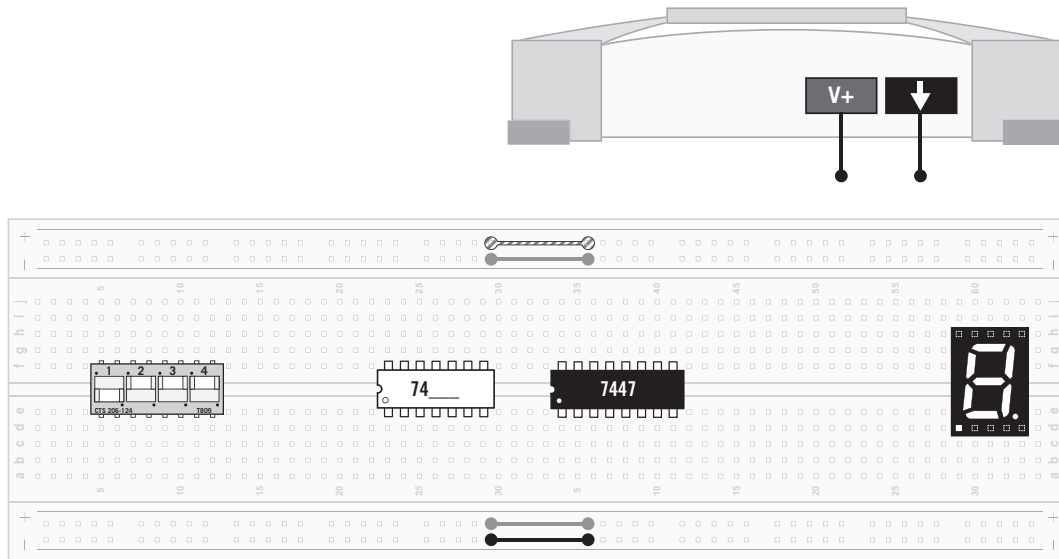
## 2 Laboratory Verification

3E -- 24

3E -- 25

### 3 Deliverables

1. Draw the circuit that you used to implement the blanking circuitry:



2. What is the purpose of creating a blanking circuit for the seven-segment display?

Grid for answer 2.

3. How would one create a combinational circuit to light the center bar ( $G$ ) of the seven-segment display (resulting in a dash) instead of only blanking it? **Explain the process.**

Grid for answer 3.