

Hovercraft B/C

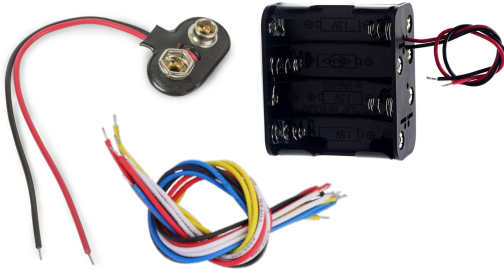
Electronics Requirements

Notes

- Rule 3f contains a white list of allowed electronics
 - That means if a component is not explicitly allowed, then it is automatically disallowed
 - This list only governs electronic components, not other materials used in the device
- Rules 3d and 3e contain additional requirements for batteries and switches
 - Multiple requirements may be relevant to any given design decision you make, so be sure to consider the rules holistically
- Always be mindful of the power rating on your electronics
 - Just because the rules allow a certain power source does not mean your circuit can handle it

Allowed Electronic Components

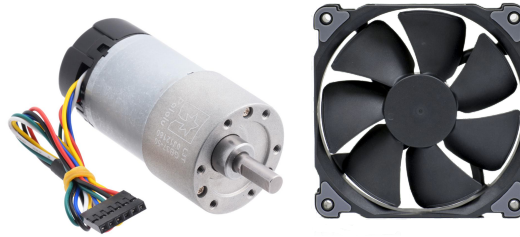
Wires



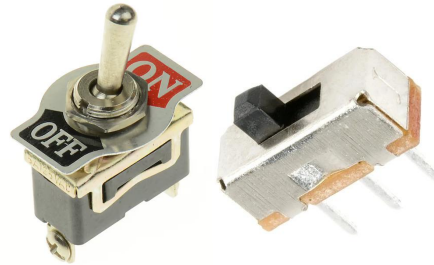
Batteries (no lithium or lead)



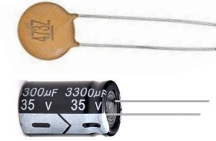
Up to Two Motors (may have integrated circuits if they are an integral commercial part of the motor)



Manually Operated Switches



Capacitors



Resistors

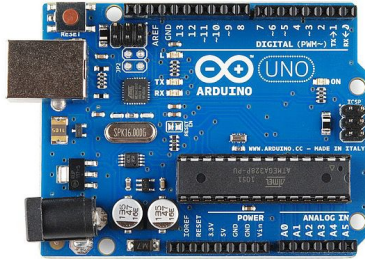


Potentiometers

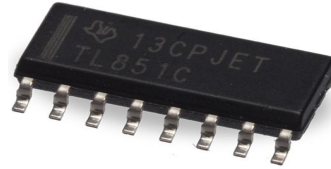


Examples of Disallowed Components

Microcontrollers



Integrated Circuit Chips (unless they are an integral part of a commercial motor)



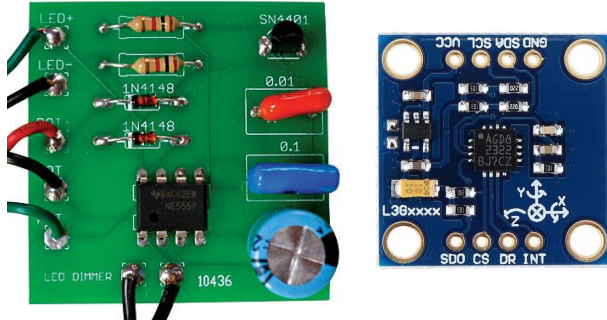
Lithium or Lead Batteries



LEDs



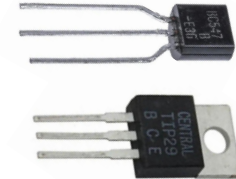
Circuit Boards



Mechanical Relays



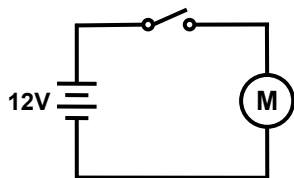
Transistors



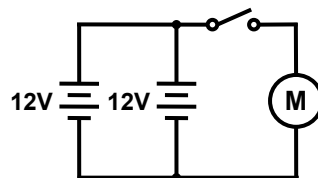
*These are just examples, not an exhaustive list.

Example Circuits

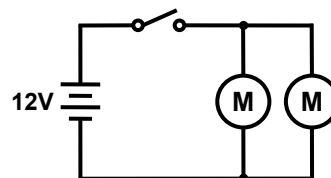
✓ Allowed



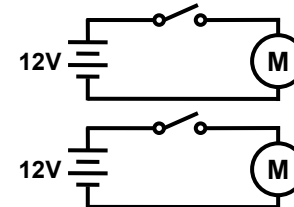
✓ Allowed



✓ Allowed

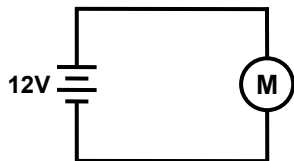


✓ Allowed



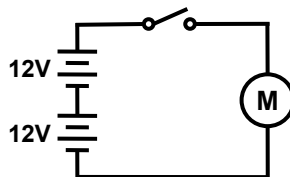
✗ Not Allowed

must have a switch



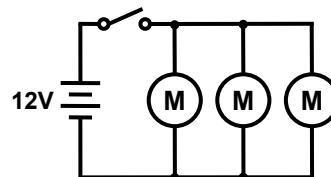
✗ Not Allowed

cannot exceed 12V



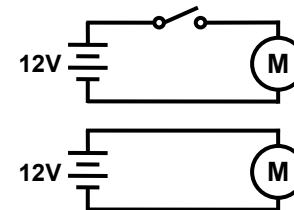
✗ Not Allowed

no more than two motors



✗ Not Allowed

no unswitched motors



*These are just examples, not an exhaustive list.