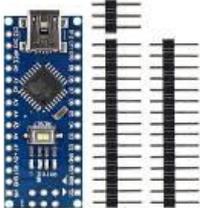
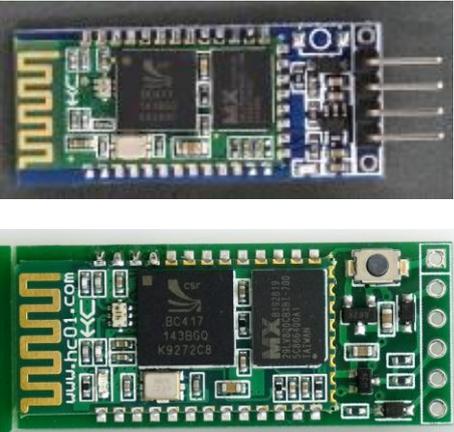
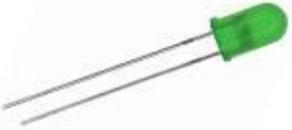


dropControllerV3 Parts List

Here is the BOM or parts list for the dropControllerV3. The list only includes the electronic components.

If you are making a perf-board version add the perf-board and some wire. Single core wire wrap wire is good for perf board prototypes. Use a thicker wire for the 12/24v VCC and 12/24v ground connections.

	<p>1 x Arduino Nano</p>  <p>I prefer to buy boards that do not have the pins pre-soldered and then not connect the programming pins.</p>
	<p>1 x HC-06 Bluetooth module</p> <p>Try to get the official HC version – has the HC logo screen printed on the board and a blue LED at the top left.</p> <p>If you prefer to lay the HC-06 flat, get the modules without pins.</p>
	<p>1 x DC to DC step down power supply; either a variable (top) output or a fixed output (bottom).</p> <p>Variable - Output should be set to 8v to 9v. Fixed – I use 9v output convertors.</p> <p>The buck convertor should be able to handle 24v in. Slightly higher is always better. The two opposite top can handle 36v in.</p>
	<p>4 X 1 pin 2.54 male header (used to attached the buck converter and may or may not be required)</p>  <p>Pins can be separated/removed from strips.</p>

	<p>2 x 15 pin 2.54 single row female headers. Used to hold the Arduino Nano.</p> <p>You can use the 40 pin version and cut to the required size. This means one end will be jagged though.</p>
	<p>1 x 4 pin 2.54 single row female header</p> <p>Used for the HC-06. If you have a regular HC-06 with verticle pins already attached, the pins on the header can be bent 90 degrees allowing the header to be attached flat. Not pretty but works OK.</p>
	<p>1 x 5mm Yellow LED (3mm also OK)</p>
	<p>1 x 5mm Green LED (3mm also OK)</p>
	<p>1 x Barrel jack power socket Type A: 5.5 mm OD, 2.1 mm ID</p> <p>I prefer the basic DC-05 barrel jacks.</p>
	<p>6 x RCA-RCJ-04x - RCA/phone socket</p> <p>I started using red, yellow, and white but have been moving to using black.</p>
	<p>4 x PJ-307 - 3.5mm stereo socket.</p> <p>If you are building your own version of the dropController then any 3.5mm socket will be suitable.</p>
	<p>5 x 4N25 (or 4N35) optocoupler</p>
	<p>5 x 6 PIN DIP Socket (for the optocouplers).</p>

	6 x IRL540N or IRLZ44N mosfet
	7 x 1N4007 diode
	7 x 330 Ohm resister 6 x 220 Ohm resister 6 x 10K Ohm resister 1 x 1K Ohm resister 1 x 2K Ohm resister ¼ Watt is fine.