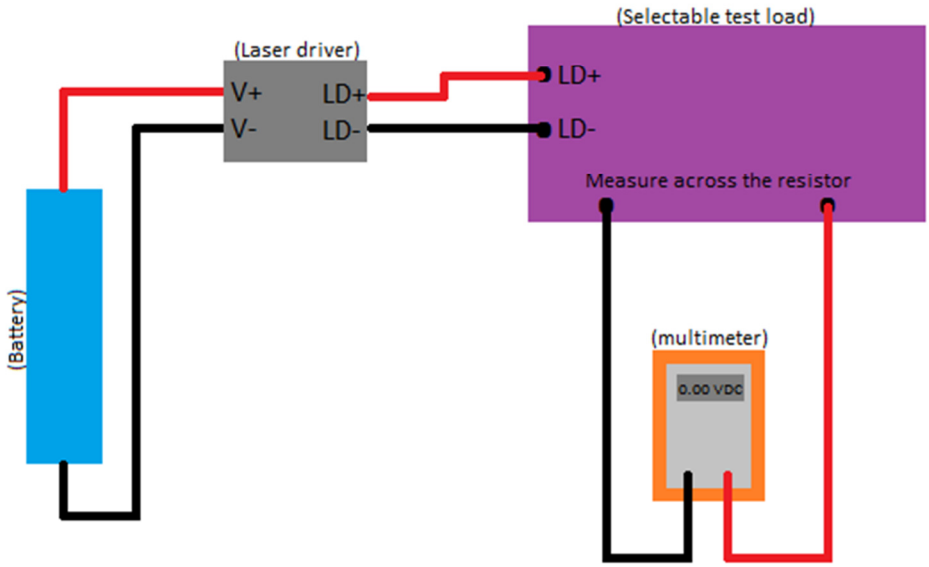
How to use the Test Load

Learning how to use the test load is pretty simple. Just follow these steps.



1. Choose the number of diodes needed to simulate your laser diode on the numbered jumper pins (***If you don't know, refer below***).
2. Hook up your driver to the test loads on the designated pin holes.
3. Place your multimeter leads across the resistor and turn it on and set it to read in volts.
4. Attach the battery or batteries to the driver and see what the multimeter reads.
5. Remember 1 mV = 1 mA due to Ohm's law.
6. What you see on the multimeter is the amount of current the driver in use is putting out.

Not enough? Here's more in-depth information:

A test load simulates the voltage drop (Vf) of laser diode at a given current (A).

Blue diodes: ~ 3.5V - 4.7V
Violet diodes: ~ 4.2V - 6V
Red diodes: ~ 2.5V - 3.5V
IR diodes: ~ 2V
Green diodes: ~ 2V – 6V+ (PL520)

To calculate total voltage drop of the test load take into account diode voltage drop + resistor voltage drop (V=IR)

Here's a table to show the various voltage drops that can be acquired using the test load.
(Note: estimated value will vary, ***resistor drop out not calculated in table****)*

	# of diodes (jumper pin setting)								
Amps (A)	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10 ***
0.1	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7
0.5	1.5	2.25	3	3.75	4.5	5.25	6	6.75	7.5
1	1.6	2.4	3.2	4	4.8	5.6	6.4	7.2	8
1.5 - 2	1.7	2.55	3.4	4.25	5.1	5.95	6.8	7.65	8.5

* this setting is achieved by removing the jumper pin to allow all diodes to be used