

Instructions: Physics 123b/223b Day 4 Lab

We are going to complete the lab through part 14L.4.1 today. (If you have time, you are welcome to complete 14L.4.2 as well. Otherwise, we will do it next time.)

The lab exercise in 14L.3.1 has you measure current with a multimeter. You may want to use the Simpson analog multimeter – it is much more robust handling current. **If you use your digital multimeter – be sure to move the red probe back to the voltage jack as soon as you are done with the measurement.**

In Section 14L.1.4, the book discusses the two different slide switch designs on the PB-503. We have the newer version, which consists of eight independent logic slide switches that can be switched between a positive voltage and ground. There is a ninth slide switch that chooses whether that positive voltage is “V+” (the positive 3.3V supply) or +5V. In this class we will always use +3.3V as the “high” logic switch voltage value and there should be black electrical tape to keep the selector switch from being moved into the +5V position. Note that all of the devices we use this term will properly interpret +3.3V as a logic high, but some of them could be damaged by +5V.

Instructions: Physics 123b/223b Day 5 Lab

Complete the rest of Lab 14 today.

mru 2025-02-21 dea