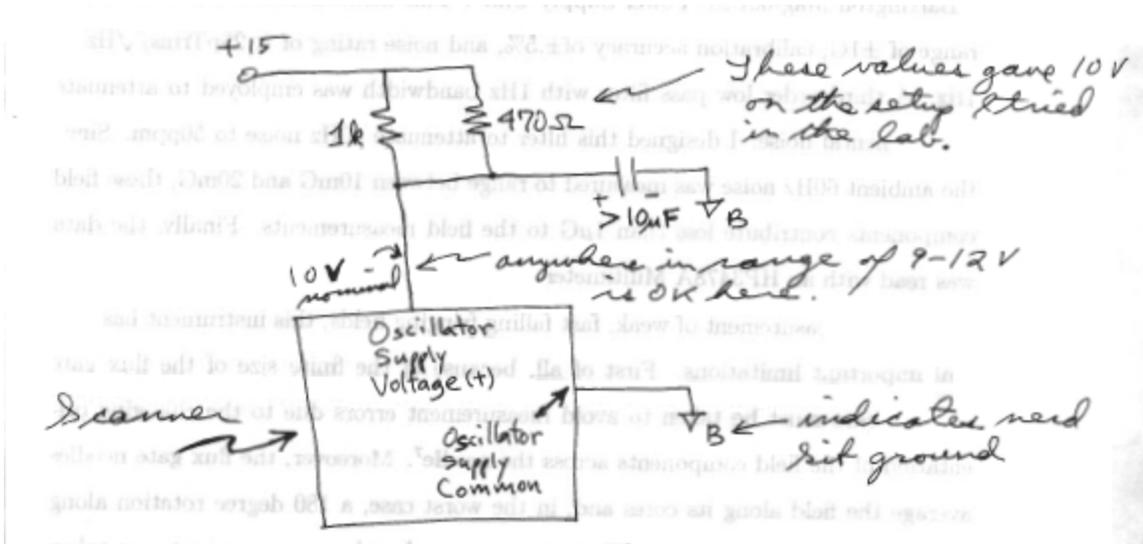


Laser Scanner Final Project: Updates

Prof. David Trumper
2.171 Fall 2006

Sensor Bias Voltage

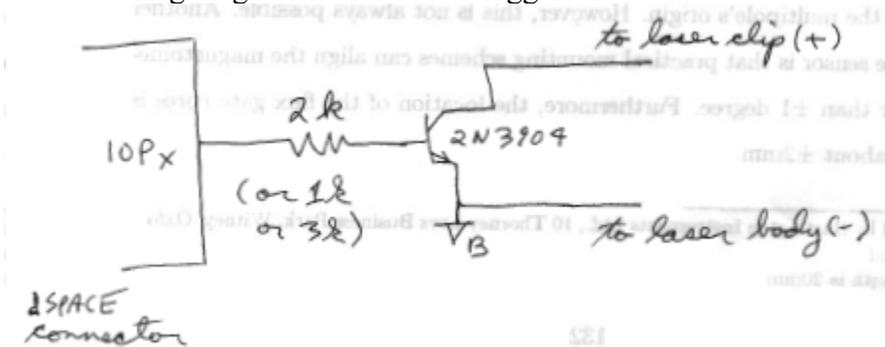
The sensor oscillator nominally runs off 10V. For high accuracy, this needs to be carefully stabilized. However, for our purposes, this is not so critical. The following circuit will work fine:



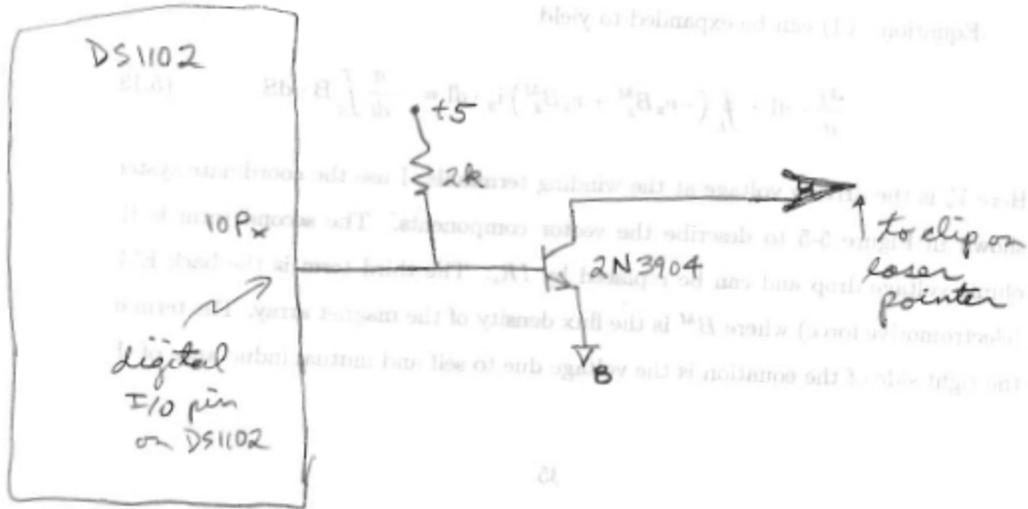
Note that I've not shown the cable connections. You can work these out.

Laser on/off driver

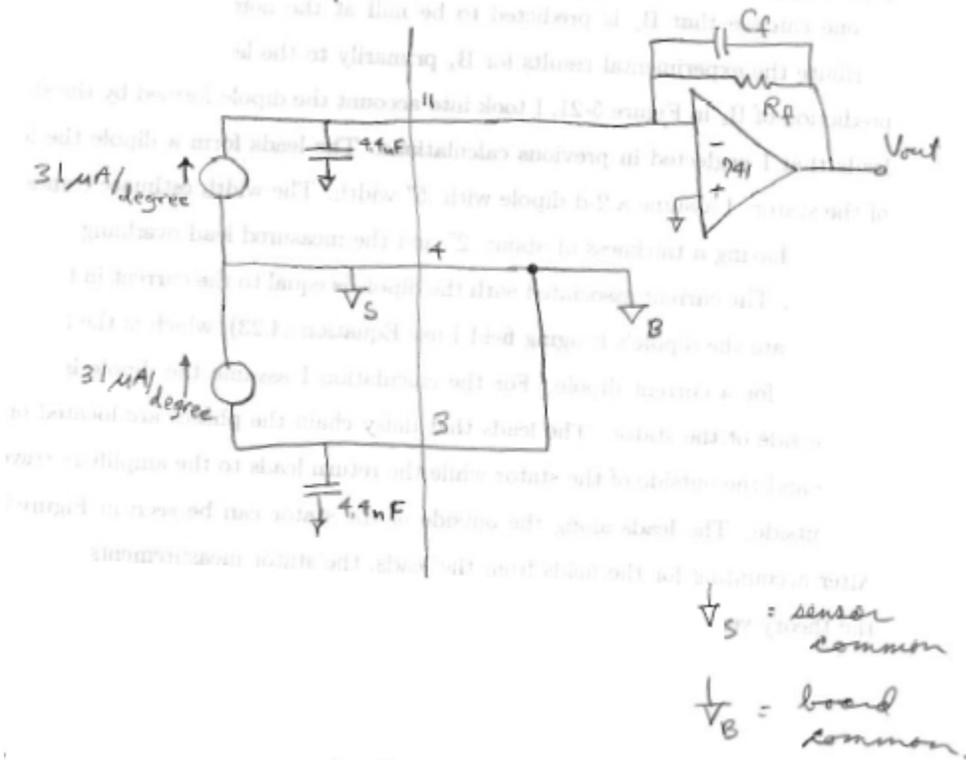
The following diagram describes the suggested laser on/off driver.



It works better than the original version, shown below:



Transresistance Amplifier for Sensor Interface



Datasheets

[Four pages from General Scanning's "G100 and G300 Series Galvanometer Optical Scanners," dated 1991, removed due to copyright restrictions.]