

Mouse Vibration Platform

Operating Notes - SOP

notes:

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reference = Hristo Nikolov x24059

items in this document are either buttons_to_push or **items_to_select** from a menu

- ensure that red amplifier is off
- plug in power bar (this should power up PowerLab and white signal generator)
- start Chart 5 program on the Mac laptop
 - go to setup
 - channel setup
 - channel 1 = output from generator
 - channel 2 = accelerometer
 - channel 1 settings
 - set level to 500mV
 - channel 2 settings
 - set level to 500mV
 - select AC coupled
 - stop recording (near bottom right of screen), press start to monitor signals
 - set sampling freq 10kHz
 - for more PowerLab operation information, please consult the PowerLab manual
- remove red shims from vibrator (shims prevent load on vibrator unit when not in use)
- turn on amplifier
- turn on Fluke 115 multimeter
 - select VAC
- increase Output voltage on amplifier very slowly and carefully
 - increase amplifier Output until V on Fluke read 0.213VAC RMS (corresponds to 0.3g @45 Hz)
 - pressing Fluke yellow button toggles between voltage and frequency of vibration
- large knob on signal generator is used to vary and fine-tune frequency (45Hz)

turn off sequence:

- reduce amplifier output to 0
- turn off amplifier
- replace shims (may have to gently lift platform a small amount)
- turn off Fluke multimeter
- shutdown Mac Laptop
- turn off powerbar to shut off signal generator and PowerLab