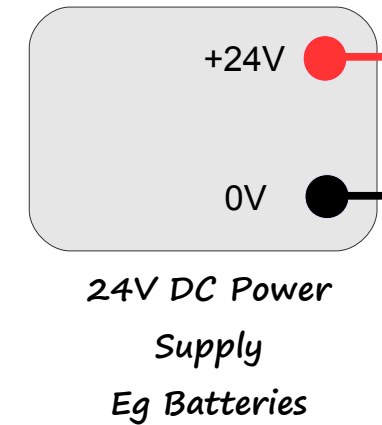
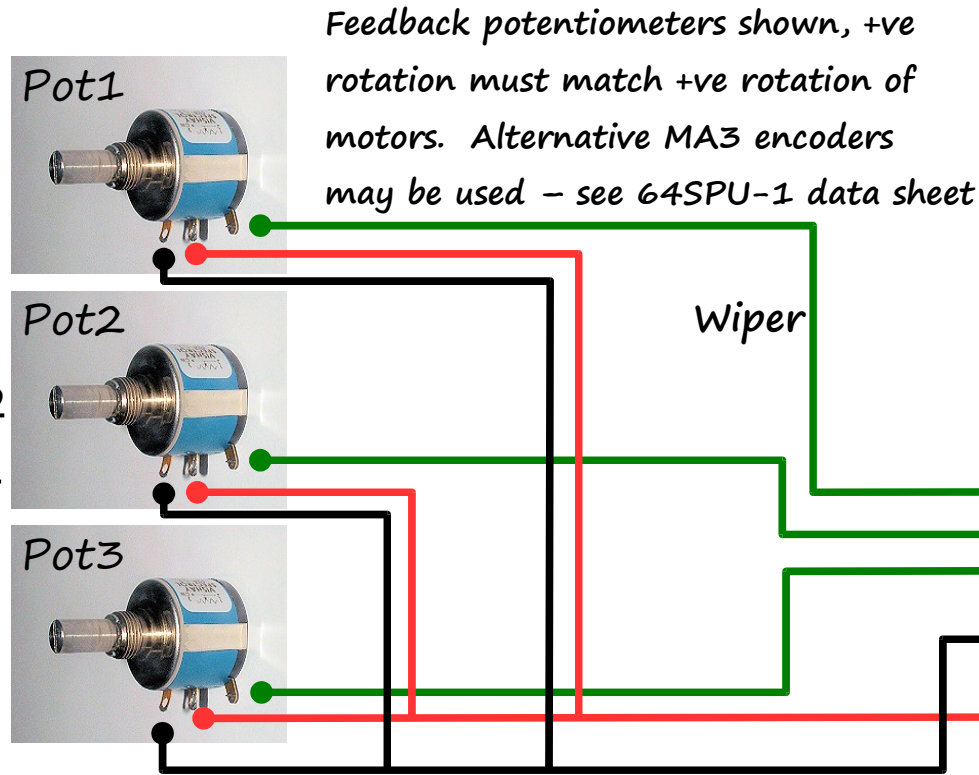


DIY Motion Platform Illustrative System Wiring

24V DC PM Motors up to 20Amp nom ea.
 Power supply to match – it must be able to sink current. Note MDO3's rated to 20 Amp ea. See MDO3 documentation for motor noise suppression requirements.



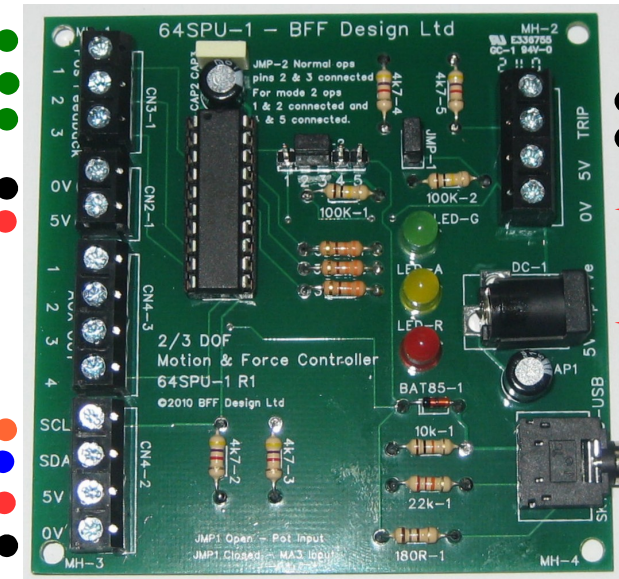
10K linear pots fixed to actuators to provide Position feedback.



IMPORTANT – the power supply to The 64SPU-1 MUST be a 5V REGULATED supply of at least 500 mA capacity. An unregulated or inadequate power supply can cause malfunction of the hardware and may result in loss of motion control.

64SPU-1 Signal Processor

See data sheet for full details of connections

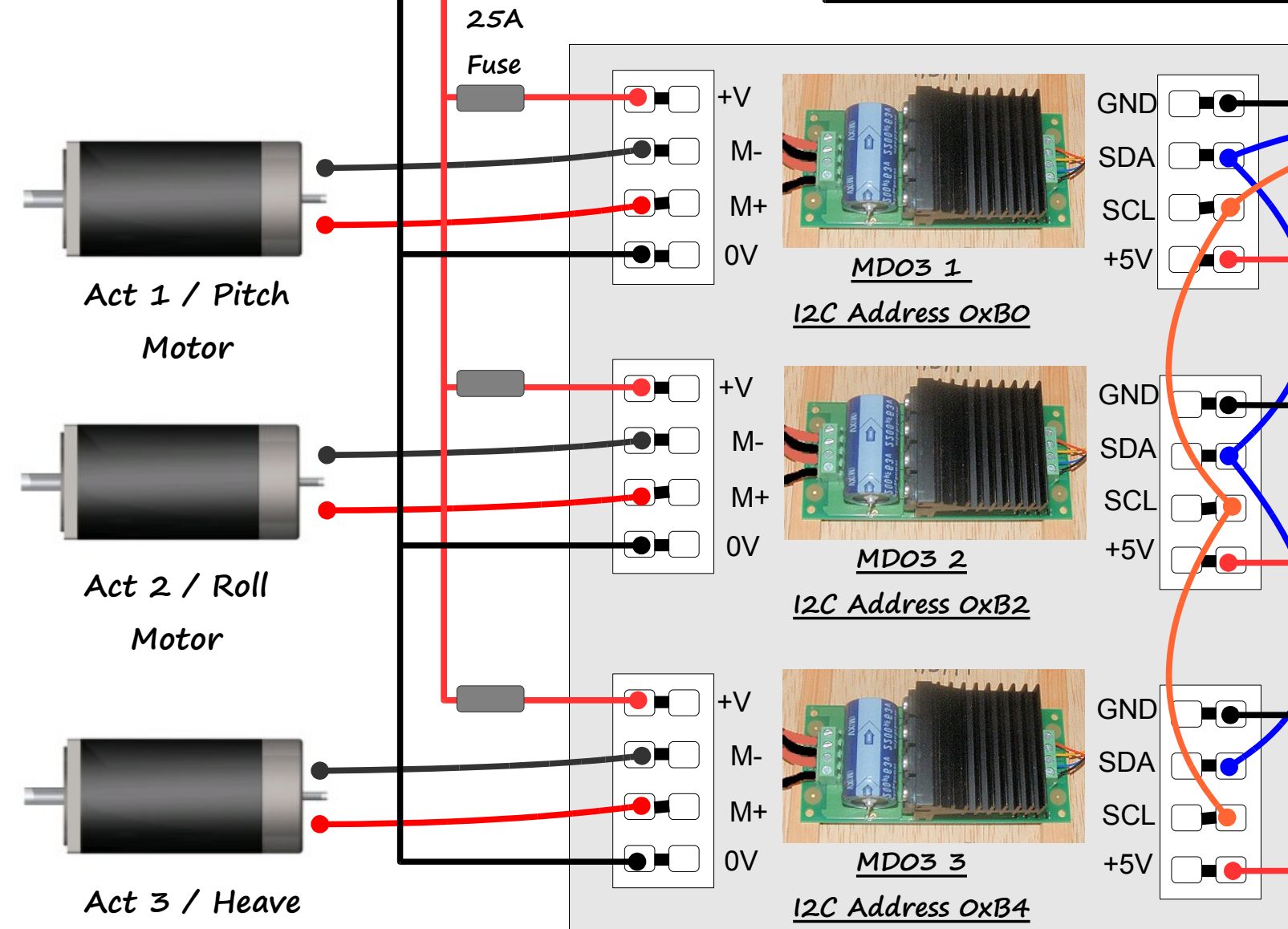


Normally closed "Output Pause" switch



5V DC OR Regulated (500mA min)

From PC
 PICAXE AXE027 (USB)
 Or AXE026 (Serial)
 Input Cable



IMPORTANT
 Actuator normally closed limit switches MUST be wired in the 5V to MDO3 line as Emergency Stop trip switches (note up to 6 needed – only 2 shown). An additional NC switch should be added as a manual Emergency Stop button.

Max wire length between 64SPU-1 and MDO3's – 300mm.
 Avoid loops in the logic GND wiring. Keep 64SPU-1 AWAY from high current end of MDO3's.
 Do not connect 0V on 64SPU-1 directly to the 24/36V battery -ve.