# Quadrant Wiring

Objective is to make the quadrant a module that connects to the CPU with a single cable. To achieve this, all wiring in a quadrant goes to a small board that collects all the signals – the *Quadrant* *Signal Hub (QSH).* The CPU uses a single wire harness to plug into the signal hubs of all 4 quadrants.

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| QSH/CPU Connections  **Signals**   1. + Motor Power: 9V - 12V 2. + Logic Power: 3.3V 3. GND 4. Serial Tx 5. Thigh Pot position 6. Shin Pot position 7. Touch Sensor | QSH / Components Connections  **Signals**   1. Motor Controller    1. + Motor Power    2. + Logic Power    3. GND    4. Serial Tx 2. Motors (X 2)    1. Controller VMOT +    2. Controller VMOT – 3. Pots (X 2)    1. + Logic Power    2. GND    3. Pot Position (X 2) 4. Touch Sensor    1. + Logic Power    2. GND |

# Quadrant Signal Hub

Too much trouble … just use a bunch of wires. Do this for V2.