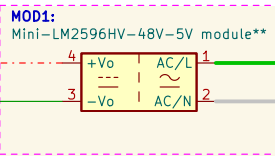


**J1:**  
 1 BLU N/C  
 2 BRN N/C  
 3 RED Load +  
 4 BLK Load -  
 5 GRN +40VDC  
 CASE WHT GND (shield)

\*This is a pig-tailed MALE 5-pin DIN that plugs in to the chair. This device's power is derived from this connection as well as the chair's motor control. Special attention needs to be observed: The case is very much active, meaning most MIDI cables will NOT work here

Adjust the LM2596HV for 5 volt output PRIOR to making this connection, or at least before mounting the PICO!

\*\*The LM2596HV module uses a bridge rectifier on its input, allowing the chair-provided 38vdc to be used.



**MOD2:**  
 2-CH-SPDT-5V module

All resistors are 1k and built-in to each LED

**J3, J4:**  
 1 UP2 Switch  
 2 DOWN2 Switch  
 3 UP Switch  
 4 DOWN Switch  
 5 n/c  
 6 Case Ground

J3 Main

J8 Lower Limit

J9 Powered Sensor

J6 Home Limit

J7 Upper Limit

J9a is initially unconnected due to the possibility of a direct short upon plug insertion. That, and if headphones were accidentally plugged into it, they'd be toast. This should be connected ONLY if a proximity sensor or other device requires a 5VDC power supply.

- All 5-pin DIN jacks (except J1) are shown as looking INTO the plug end (the receptacle). The solder tabs would therefore be behind it.
- J1 is actually a MALE connector
- J3 and J4 are interchangeable; Use either/both

All Raspberry inputs are pulled high by default. J3 and J4 will accept 4 button controllers. The two extra buttons mimic the main controller buttons. This can be altered with the software.

The light-gray wire shown is actually white color