



# How to Test the Hardware Inputs on a ClearPath Motor

Revision date 8/27/25

- Disconnect motor's 8 pin connector
- Power up the motor
- Connect motor to PC (via USB cable)
- Launch MSP software
- Touch battery leads to input pins
- Observe "LED" indicators in MSP

### Test Enable Input (pins 4 and 8)

**IMPORTANT!**  
Connect battery to motor using polarity shown.

pin 8

pin 4

9V

Inputs and Commands    Enable On/Off    Input A Dir (CW/CCW)    Input B Step CCW    ServoOn Output

Override Inputs     Enable On/Off     Jog CCW    Vel. (RPM) 500.0    Accel. (RPM/s) 5,000

Servo On

### Test Input A (pins 3 and 7)

**IMPORTANT!**  
Connect battery to motor using +/- polarity shown.

pin 7

pin 3

9V

Inputs and Commands    Enable On/Off    Input A Dir (CW/CCW)    Input B Step CW    ServoOn Output

Override Inputs     Enable On/Off     Input A Dir (CW/CCW)     Jog CCW    Vel. (RPM) 500.0    Accel. (RPM/s) 5,000

Servo Off

### Test Input B (pins 2 and 6)

**IMPORTANT!**  
Connect battery to motor using +/- polarity shown.

pin 6

pin 2

9V

Inputs and Commands    Enable On/Off    Input A Dir (CW/CCW)    Input B Step CCW    ServoOn Output

Override Inputs     Enable On/Off     Jog CCW     Input B Step CCW    Vel. (RPM) 500.0    Accel. (RPM/s) 5,000

Servo Off

If the input is functional, its associated virtual LED will "turn on" (light blue) in the MSP UI when the battery is connected.