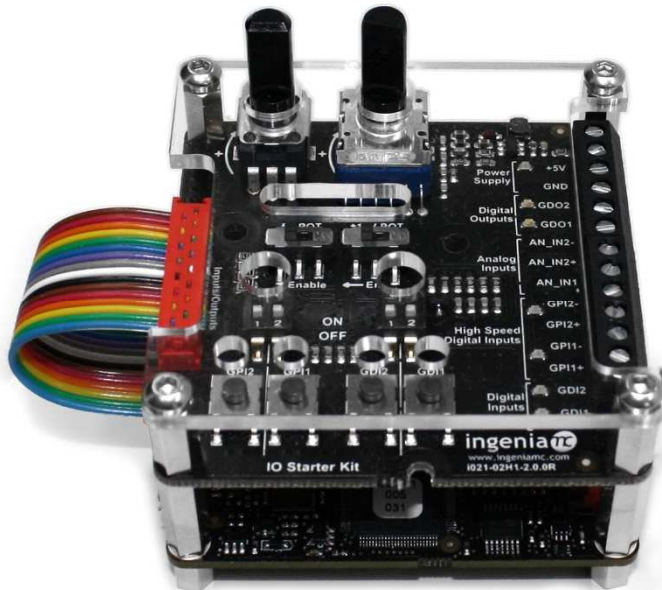


| DEVELOPER'S KIT

GETTING STARTED

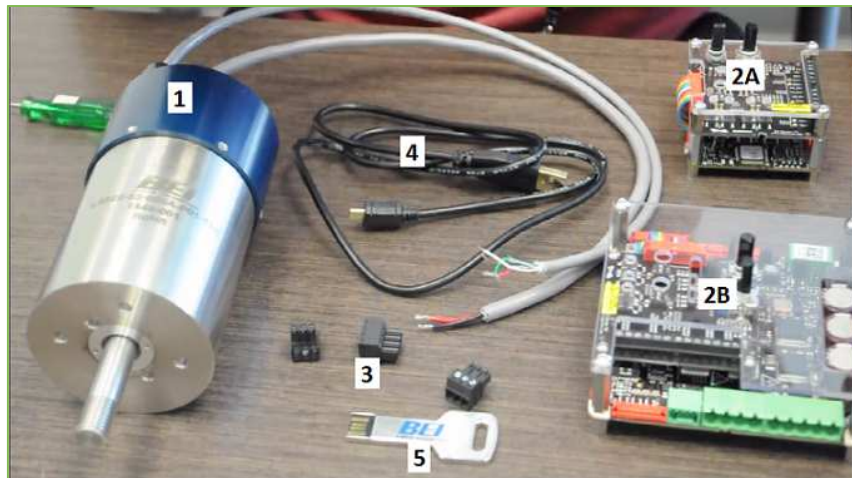


Unboxing & Wiring

Non-Supplied Items needed:

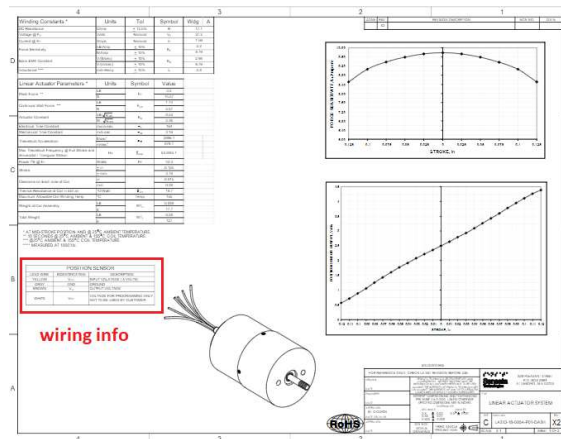
1. Power supply (12V-48V for Pluto, 10-130V Jupiter)
 - a. Check peak current rating of actuator and ensure supply can handle it.
2. Screwdriver that fits input terminals on I/O board.
3. Wire Stripper (varying gauge size)

Items in Developer Kit:



1. Voice Coil Actuator (Sizing depends on order)
2. Ingenia Controller with I/O board (one of two)
 - a. Pluto
 - b. Jupiter
3. Attachable terminals (to use with controller)
4. USB 2.0 to Micro-USB Cable
5. Flash Drive containing configuration files

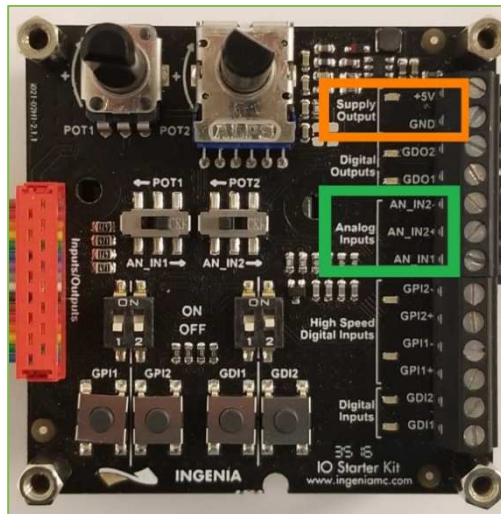
Necessary Documents:



1. VCA drawing (specifically Position Sensor wiring info)

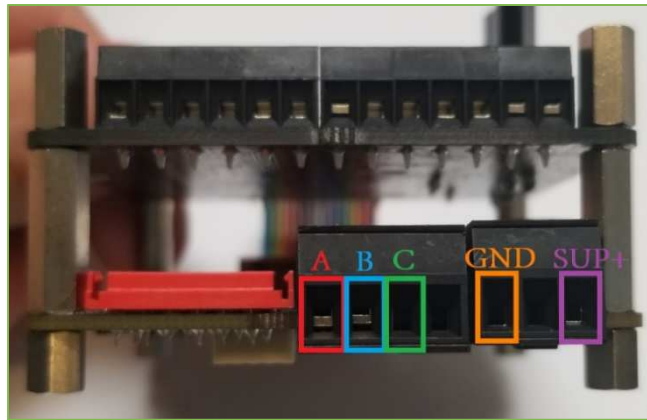
Step by Step Wiring:

1. Attach terminals to the bottom board of controller. There are two 3-terminal and one 4-terminal locations.



2. Connect the Vcc wire to the +5V input on the I/O board (found on Supply Output Section).

3. Connect the GND wire to the GND input on the I/O board (found on **Supply Output** Section).



4. Connect Vo wire into AN_IN1 input on the I/O board (found in **Analog Inputs** Section)
5. Connect the red coil wire to **Phase A** on the bottom board.
6. Connect the black coil phase wire to **Phase B** on the bottom board.
7. Calibrate power supply to desired voltage. With the supply off, connect the positive wire into the **SUP+** terminal on the bottom board.
8. Connect the supply ground wire into the **GND** terminal on the bottom board
9. You'll notice that the white wire coming from the actuator is unused. Make sure that this wire is taped/bound to something so that it doesn't cause a short if it touches the controller.
10. Turn on the power supply to turn on the controller. If you only see green lights on the bottom board, then you have connected everything correctly.
11. Connect your board to the computer via the provided USB cable. The port is on the opposite side of the phase inputs, just next to the ribbon cable.

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