



Thank you for purchasing the Lynxmotion AL5D PLTW Robotic Arm Kit. This kit contains the new SSC-32U servo controller board which is a bit different than the old board you might have used before.

Highlights of the New Version

- No more USB-to-serial adapter: the new board connects directly via USB.
- No special USB drivers needed: uses standard drivers included with Windows (FTDI).
- No more 9V battery: improved power circuit means the arm is powered from wall adapter alone.
- More inputs: ABCD work the same, and EFGH are for future use.
- Bluetooth upgrade option: add a Bluetooth Bee for wireless control.

USB Communication

Please use the USB cable included: some other USB cables are not reliable, and communication doesn't work properly. When you connect the board to your computer the first time, Windows will automatically install the drivers and the board will appear as a COM port on your computer.

Power Supply

A separate 9V battery is no longer needed. Just connect the 6V wall adapter to the VS1 screw terminals like normal; no need to change any jumpers.

FlowArm PLTW Software

When using with the FlowArm PLTW software, please use the Bluetooth button before choosing the COM port. This button sets the baud rate to 9600, instead of 115,200 for the old SSC-32.

Note: A future version of FlowArm PLTW will have a dedicated button for the SSC-32U board.



Input Pin Actions with FlowArm PLTW

Each input pin now has its own + and - pin, marked as 5 and G respectively. Inputs ABCD work the same way in FlowArm PLTW, and inputs EFGH are intended for future use.

Bluetooth Upgrade

The board has a socket for a Bluetooth option. If interested, go to www.robotshop.com and purchase the RB-Dfr-95 Bluetooth module. If your computer does not have Bluetooth, you will also need a USB to Bluetooth module such as RB-All-20.

Technical Support

If you need technical support with the new board, please post your questions to this dedicated location in our forum: www.robotshop.com/forum/ssc-32u-f142