ROBOTC

Downloading a Sample Program over USB

This document is a guide for downloading and running programs on the VEX Cortex using the USB A-to-A cable.

You will need:

Setup

- 1 VEX Cortex Microcontroller with one 7.2V Robot Battery
- 2 Motor Modules connected to MOTOR ports 2 and 3 on the VEX Cortex
- A computer with ROBOTC for Cortex and PIC installed
- 1 USB A-to-A Cable
- 1. Leaving the POWER switch in the OFF position, connect your Cortex to the computer using the USB A-to-A cable. Once the cable is attached, move the POWER switch to the ON position.







4. Specify the *Download Using USB Only* as the *VEX Cortex Download Method*. ROBOTC will remember your choice, so you do not need to select it every time you download a program.

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	Compile Program	F7
	VEX Cortex Download Method	Download Using VEXnet or USB
	Debugger	Download Using USB Only
	Debug Windows	Download for Competition (VEXnet)
	Remote Control Troubleshooter	+
	Platform Type	•



ROBOTC

Downloading a Sample Program over USB (cont.)



6b. Power Cycle the Cortex

You can also run the program by turning the Cortex OFF, and then ON.

Note: The USB cable provides some power to the Cortex, so it must be unplugged to fully turn the Cortex OFF. Closing the ROBOTC Program Debug window before unplugging the USB cable is recommended.

7. Observe the sample program running on the robot. The motors plugged into MOTOR ports 2 and 3 should spin for 3 seconds, according to the ROBOTC program.



End of Lesson

Setup

In this lesson you learned how to program your robot directly over the USB A-to-A cable. If you experienced issues with the process, make sure you've follwed every step, and then reference the troubleshooting section below.