

Using Smart Radios (Bluetooth) with Vex IQ and Modkit

Updated: 4/19/2017

Preparing your computer for installation (+/- 2 hours)

**It is imperative that you consult your IT team prior to installing any software or attempting to amend any settings on your computer. Administrative rights are based on a profile created by your System Administrator; therefore a plethora of variances are possible and these 'rights' may not necessarily allow you to install software properly.*

1. Disable the UACs (set to 'Never notify')
2. Disable the anti-virus software
3. Disable pop-up blocker in the browser you are utilizing
(These settings may be re-enabled once the software is installed and operational.)
4. Ensure you have permissions to install USB drivers for any Android, Robotics or other devices which will connect to the computer via USB.

Part I

Installing the Smart Radios

Procedure

Step 1: Locate the red button on the bottom of the Vex IQ Brain.



Step 2: Press the red button to install the Smart Radio chip.



Step 3: Insert the Smart Radio chip. The smart chip should protrude about a quarter inch. There are pictures illustrating the chip fully installed (Figure 3) and not installed. The red button must be pressed for installing and uninstalling the Smart Radio.



Smart Radio *CORRECTLY* Installed



Smart Radio *INCORRECTLY* Installed

Part 2

Downloading the VEXos Utility Program

Note: If you have already installed the VEXos Utility Program, proceed to step one of **Using the VEXos Utility**.

Step 1: Click on the download button below to [download the installer](#).



Step 2: If given the option, choose "Run". Otherwise, save the file and open it.

Step 3: Follow the on-screen instructions to install the VEX IQ Firmware Updater.

Part 3

Using the VEXos Utility - 3 Easy Steps

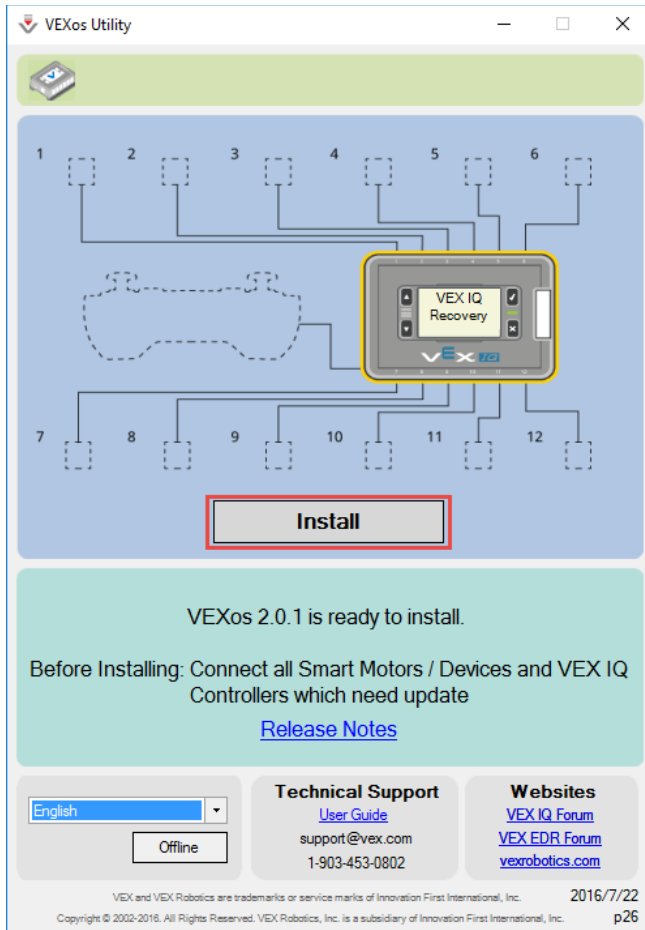
Step 1: Plug all devices into the Robot Brain, and plug the Robot Brain into your computer via USB.



Step 2: Turn on the Robot Brain.



Step 3: Open the VEXos Utility, and select **Install**



NOTE: Firmware Updater may have to be run more than once in order for all components to fully update.

Part 4

Connecting to Modkit for Vex

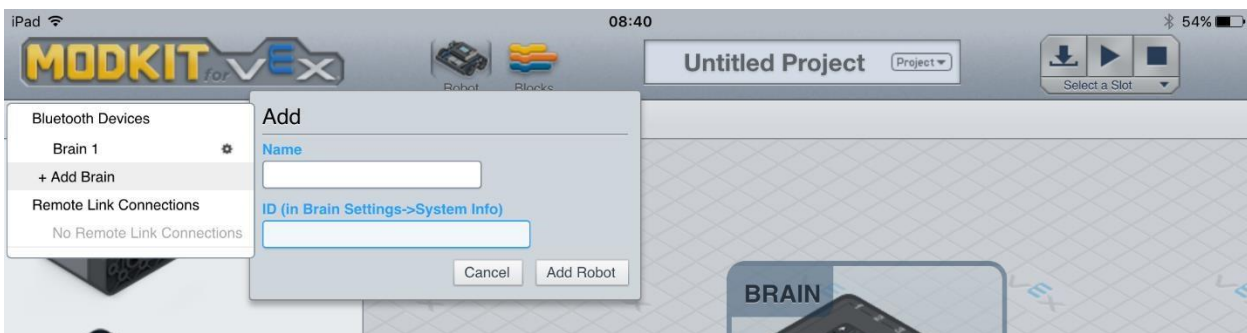
Step 1: Turn Bluetooth on under the **Settings** app on the iPad



Step 2: Open Modkit and select the Vex IQ Drop down menu



Step 3: Select **Add Brain**. Enter a name for the Brain and the **Brain ID**



A) The Brain ID is found by selecting the X button for **Settings**



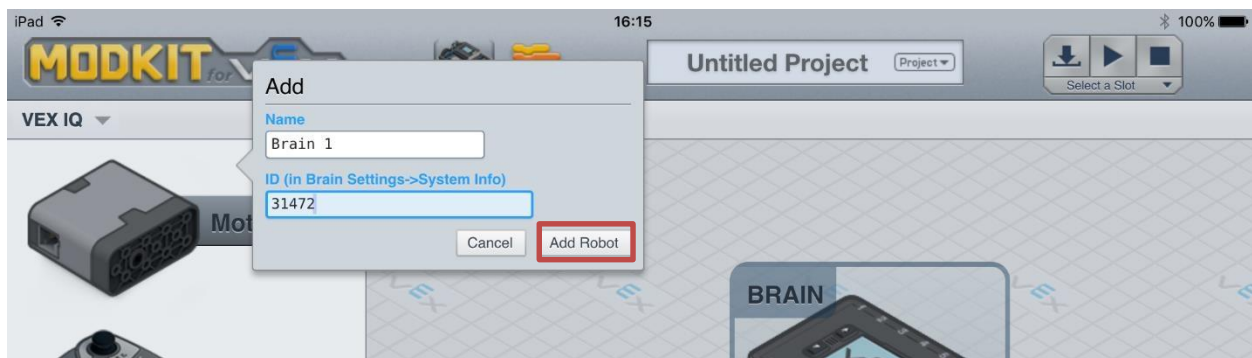
B) Use the Up or Down Buttons to select **System Info**, and then press the Check Button



C) Locate the ID as shown in the picture below



Step 4: After inputting the **Name** and **Brain ID**, select **Add Robot**



Step 5: If your Brain has connected, your iPad will appear as the picture below



Additional VEX IQ documentation

- [How to setup wireless controller](#)
- [VEX IQ Troubleshooting Flowchart](#)
- [VEX IQ LED indicator meanings](#)