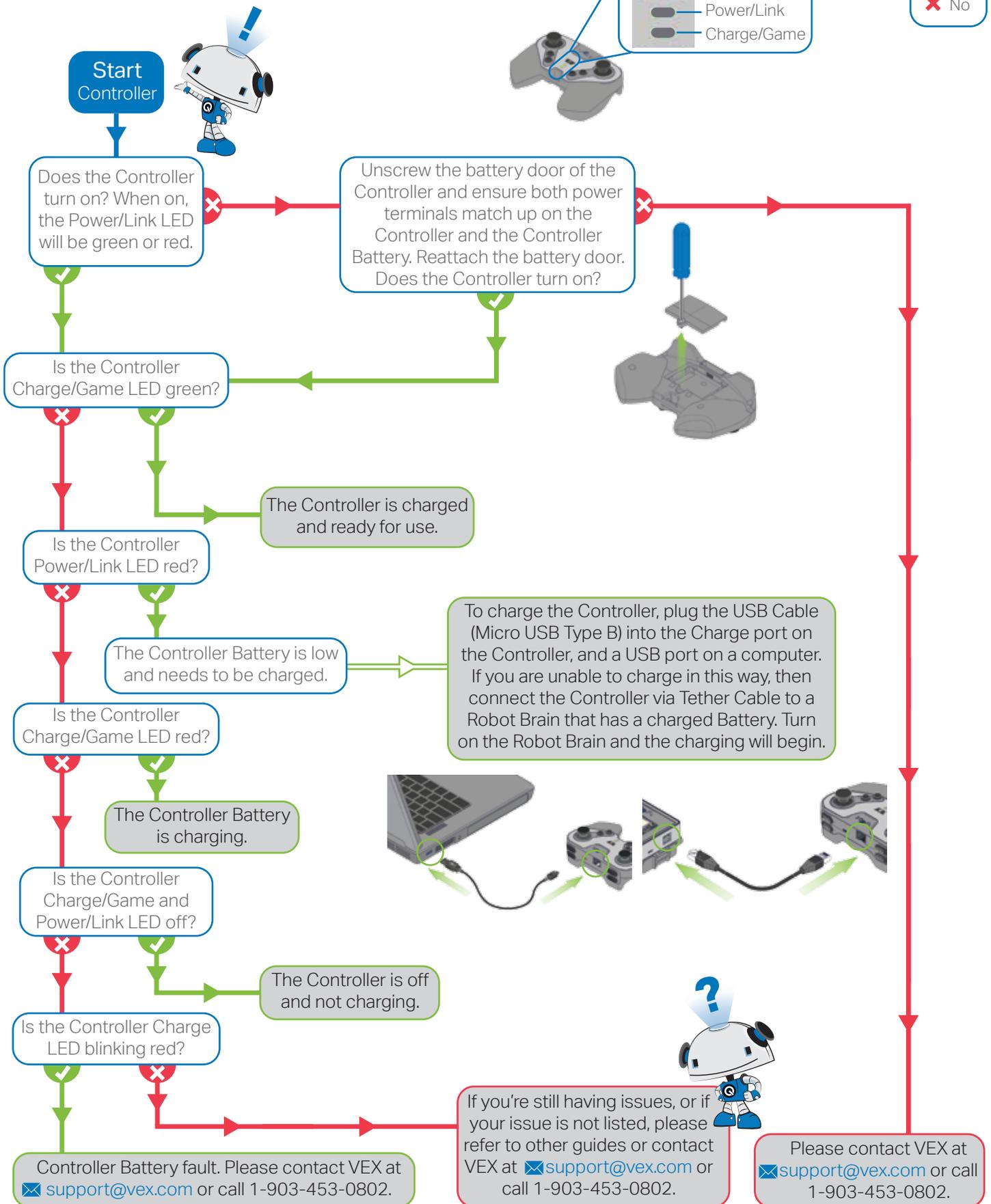


# VEX IQ Troubleshooting Flowchart

## Controller & Controller Battery

Legend

- ✔ Yes
- ✘ No

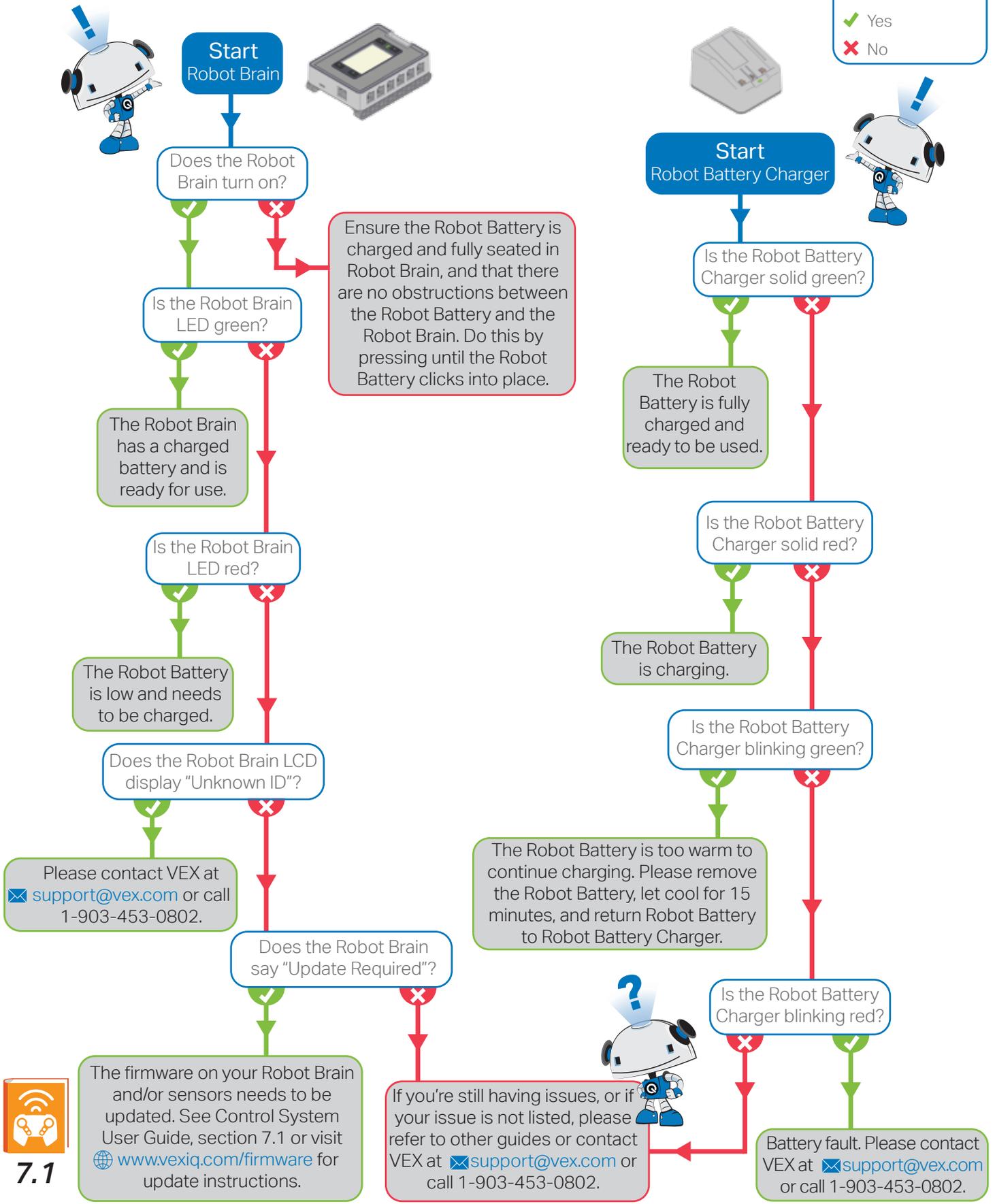


# VEX IQ Troubleshooting Flowchart

## Robot Brain & Robot Battery

Legend

 Control System User Guide  
 Yes  
 No




  
**7.1**

# VEX IQ Troubleshooting Flowchart

## Wireless Connection

Legend

 Control System User Guide

 Yes

 No



Start



Do the Controller and Robot Brain wirelessly connect? This can be seen by powering on the Controller and Robot Brain. If the Power/Link LED on the Controller and the Robot Brain LED are both blinking then the two are connected.

The Controller and Robot Brain are not paired. To pair a Controller and a Robot Brain, start by powering off both. Then, insert either two 900 MHz (Grey) or two 2.4 GHz (Black) (do not mix) into Robot Brain and the Controller radio slots. Then connect the two with a Tether Cable, and power up the Robot Brain. Once you see a tether icon in the top right corner of the Robot Brain LCD, the two are now paired. Unplug both ends of the Tether Cable and power cycle the Robot Brain and Controller. See Control System User Guide, section 2.2 or online video at [www.vexiq.com/downloads](http://www.vexiq.com/downloads) for more details. Did this solve the issue?



Is the Robot Brain LED or the Controller Power/Link LED a solid red or green?

The Robot Brain and Controller are unpaired and need to be paired.



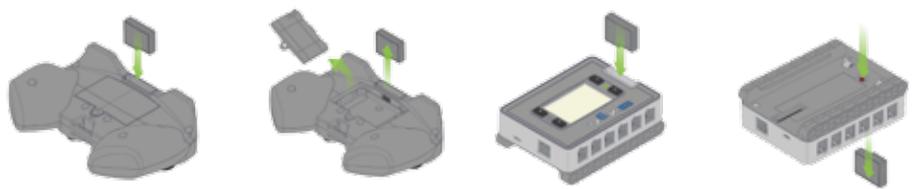
The Controller and Robot Brain are ready for use.

Does the LCD display show "Controller Link Lost"?

Power off the Controller and Robot Brain. Then, ensure both radios are either both 900 MHz (Grey) or both 2.4 GHz (Black) (do not mix), and that they are properly seated in the radio slot. To do this, firmly press on the top of the radio until resistance is met. Next, ensure both Controller and Robot Brain are paired.

Are the Controller and Robot Brain more than about 20 meters (65 feet) apart?

The controller and Robot Brain are out of range. Bring them closer together.



Have you tried replacing the radios?

- To replace the radio on the Controller, take off the battery door and the radio should come out with little resistance. Then, insert a new radio and screw the battery door back into place. The radio is fully seated when 7-8 mm is still exposed.
- To replace the radio on the Robot Brain, take out the Robot Battery and hold the red button. The radio can be pulled out with little resistance.
- Important: Remember to use either two 900 MHz (Grey) radios or two 2.4 GHz (Black) radios. Do not to mix radio types.

If you're still having issues, or if your issue is not listed, please refer to other guides or contact VEX at [support@vex.com](mailto:support@vex.com) or call 1-903-453-0802.

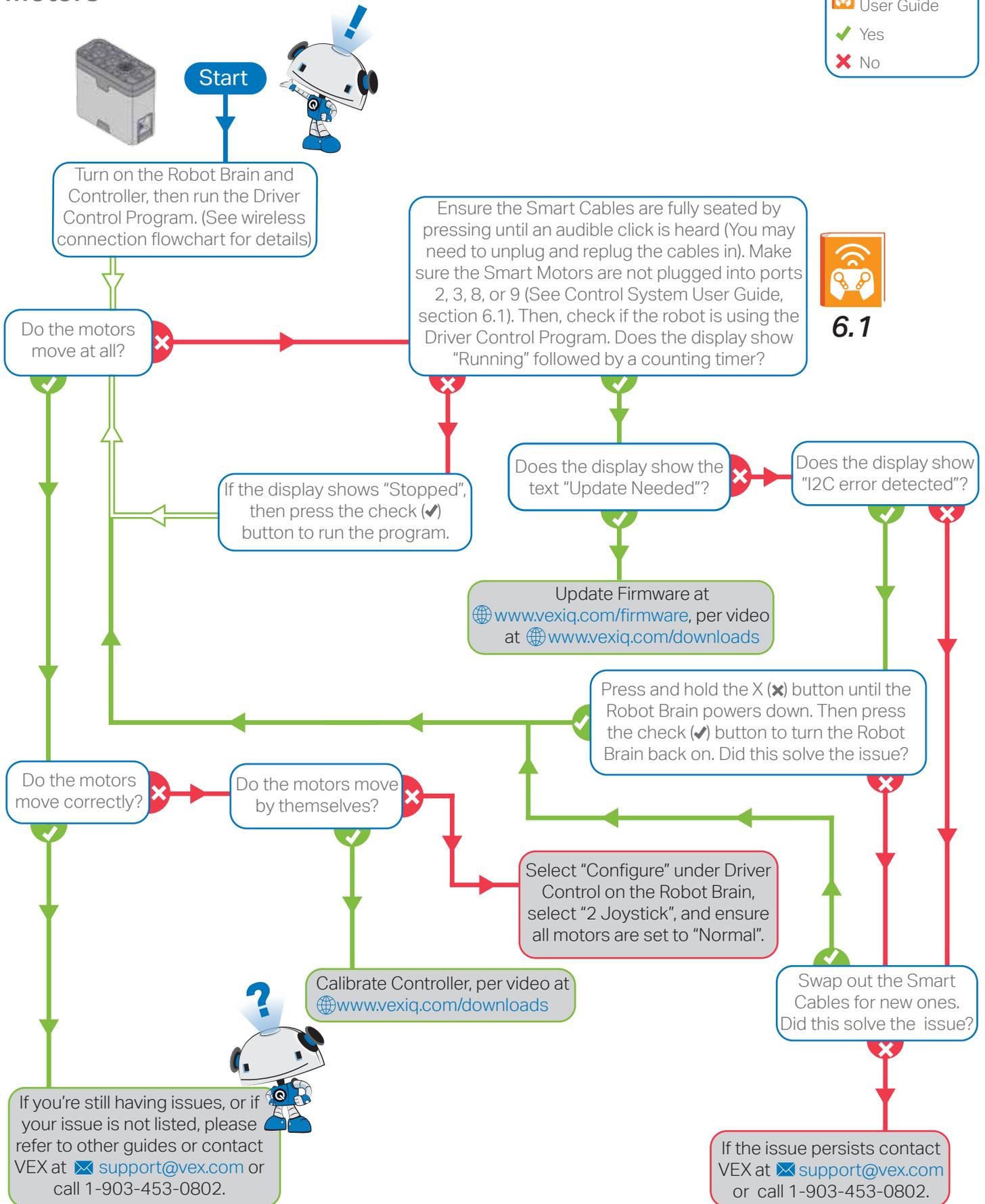


# VEX IQ Troubleshooting Flowchart

## Motors

Legend

-  Control System User Guide
-  Yes
-  No



# VEX IQ Troubleshooting Flowchart

## Sensors

Legend



✓ Yes

✗ No



Start

Turn on the Robot Brain and Controller, then run the Driver Control Program. (See wireless connection flowchart for details)



6.1

Do the sensors work at all? (See Control System User Guide, section 6.1)



Ensure the Sensors are fully seated by pressing until an audible click is heard (You may need to unplug and replug the cables in). See Control System User Guide, section 6.1 for the list of which sensors are used in the Driver Control program. Then, check if the robot is using the Driver Control Program. Does the display show "Running" followed by a counting timer?



6.1

Do the sensors work properly? See the Control System User Guide, section 6.1 for descriptions of the default sensor functionality.



6.1

Test sensors using IQ videos at [www.vexiq.com/downloads](http://www.vexiq.com/downloads)

If the display shows "Stopped", then press the check (✓) button.

If you're still having issues, or if your issue is not listed, please refer to other guides or contact VEX at [support@vex.com](mailto:support@vex.com) or call 1-903-453-0802.



If the issue persists contact VEX at [support@vex.com](mailto:support@vex.com) or call 1-903-453-0802.