Troubleshooting GoPiGo2

dexterindustries.com/GoPiGo/troubleshooting-gopigo2/

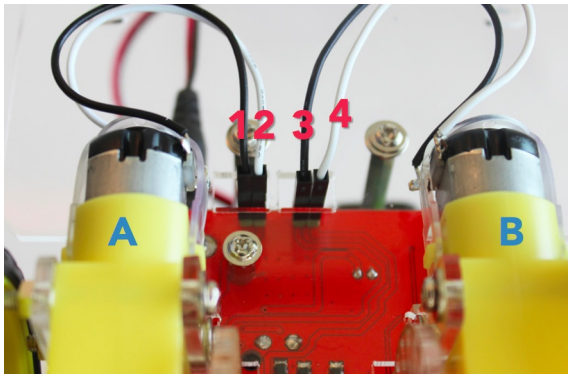
Frequently asked questions about the GoPiGo. Please click on the subject you're interested into expand it out.

Motors

When you ran the GoPiGo test and your GoPiGo did not drive forward and then backwards, there are several things to check. First, check the motor wires. Are they plugged in firmly?

If one motor turns and the other doesn't, check for differences in the way the motors are plugged in. If one or both motors don't turn in the direction you expect them to, you may need to switch the order the wires are plugged in.

Another issue to check on is friction. If your wheels are rubbing against the side of the GoPiGo, they won't be able to turn freely and you may find your GoPiGo not moving in a straight line, especially if one wheel has friction issues and the other does not. If you suspect this may be the problem, pull your wheels a little farther from the body of the GoPiGo and test again.



If neither of these problems sounds like the failure you are seeing, you may need to do a little more detective work. Watch the assembly videos again and make sure you have built everything just like the robot you see there. You can also try running the Dexter Industries Software Update. The icon is on the Dexter Industries desktop "DI Software Update". Follow the instructions closely and **make sure that your motors are unplugged** when running this update.

Servos

To troubleshoot the Servos, try running the basic_test_all.py example here.

In the command line type:

```
cd /home/pi/Desktop/GoPiGo/Software/Python/ sudo python
basic_test_all.py
```

Next, type "f,v" this should give the firmware version and the voltage of the battery.

After running these commands, try a servo sweep. Enter "b" and then individually check the servo positions with the "st" command. Enter angles between 0 and 180.

Check that the servo is properly installed by watching the video below.