

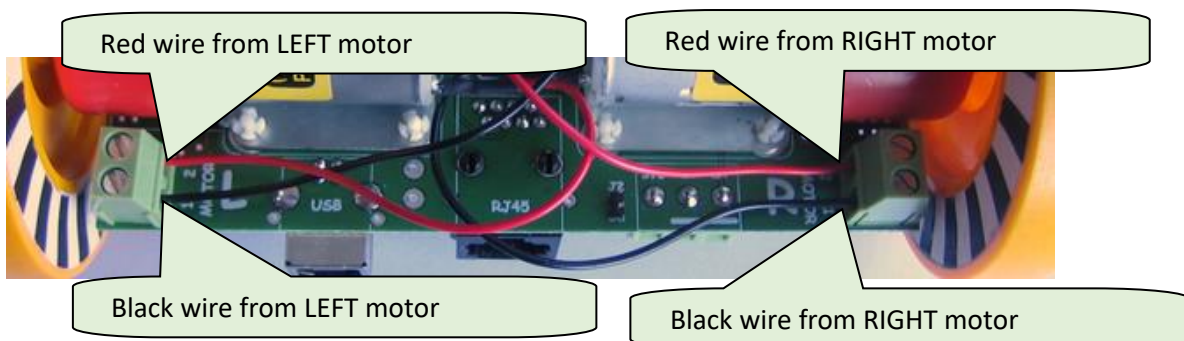
# Activity 1 – Self-test Diagnostic Sheet



## Diagnosing problems based on the robot failing the self-test:

If you have a robot that has failed the self-test activity, the following will help find out the problem.

- Test 1 fail
  - Check batteries are correctly inserted and rerun the test
  - Try different set of batteries and rerun test
- Test 2 fail
  - Faults in switches or LEDs – use spare robot and return original for repair
- Test 3 fail
  - Likely to be a wiring problem:
    - Make sure the LEFT motor is wired to the left connector
    - Make sure the RIGHT motor is wired to the right connector
    - BLACK wires connect to connector-1
    - RED wires connect to connector-2



- Test 4 fail
  - Again, likely to be a wiring problem – see Test 3 fail
- Test 5 fail
  - Check that POTS point exactly to the battery as in following picture, then rerun test
  - A similar test failure means that there is a problem with the robot hardware – contact us