

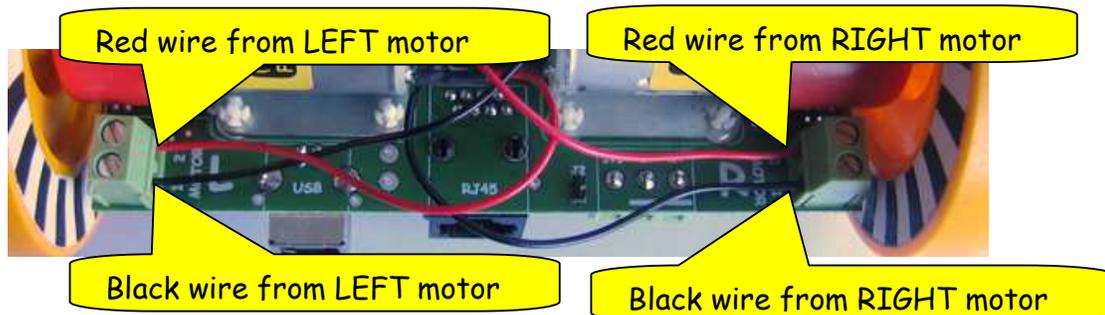


Activity 1 : Self test diagnostic sheet

Diagnosing problems based on the robot failing the self-test

You have a robot that has failed the self test activity. The following will help to find out the problem.

- FIVE ✓'s means all is fine and the motor wiring is correct.
 - Now remove the wire links and store in your kit box. You can always rerun the test if you feel that the robot is not working correctly.
- Test 1 fail
 - Check batteries are correctly inserted and rerun the test.
 - Try different set of batteries and rerun test.
 - If successful recharge batteries.
- Test 2 fail
 - Faults in switches or LEDs
 - Use spare robot and return original for repair.
- Test 3 fail
 - Like 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 information.
- 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.
 - Use spare robot and return original for repair