



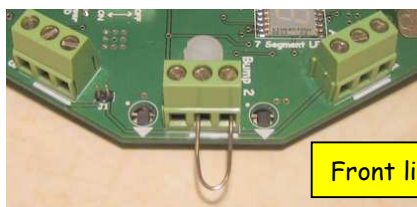
## Activity 1 : Self test sheet

### Aim

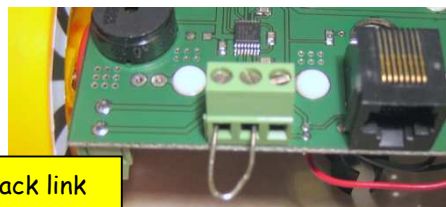
To ensure that the robot is built and wired correctly and that there are no hardware faults in the robot.

### Preparation

Add TWO wire links to the robot as follows



Front link





Back link

The links are provided in a pack in your teacher's kit. The pack is labelled "wire links".

### Running the test

Put a ✓ or a ✗ in the last column if the test was successful or failed.

Test	Action	Comments	✓ or ✗
1.	Place robot on the floor and switch on.	Display should show the message <b>tEST8</b>	
	Press any switch to continue to the next test.		-----
2.	As each LED comes ON press the switch below 	LED A comes On → press SW-A LED B comes On → press SW-B LED C comes On → press SW-C LED D comes On → press SW-D  Tests the four LEDs and the four switches	
3.	Ensure robot is on the floor then press switch A	Robot should move forward for 5 seconds	
4.	Press switch A	Robot should turn left for 3 seconds	
		Display will now show the message <b>SEt POtS</b>	----
5.	Set all 3 POTs to point to the batteries. Then press switch A 	If successful the display will show <b>tEST_End</b>  If there is a problem the display will show <b>Err_Pot_1 or 2 or 3</b>	

If five ✓'s then robot works and is correctly wired. If any ✗'s then get copy of diagnostic sheet from your teacher.