

# Ai2 Robot Trouble Shooting Guide

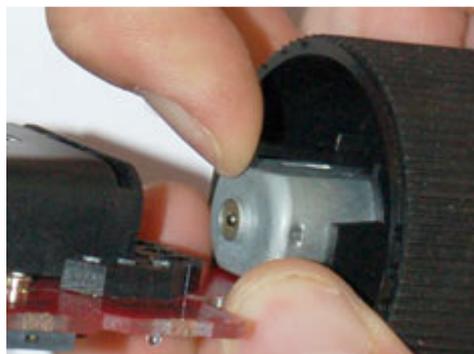
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## One or both motors not driving

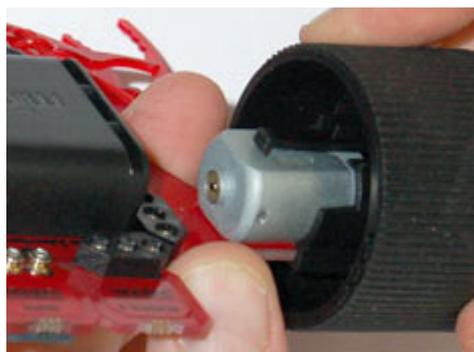
Prior to starting this section of the trouble shooting guide, it would be worth while tightening up the screws on each of the motor modules to make sure the fault is not a loose connection.

If when you attempt to start a function, your Ai2 robot resets back to the main Ai2 screen and does nothing, your batteries may require replacement. Once you have replaced your batteries, install a battery saver when your Ai2 robot is not in use to conserve battery power.

Gently lift the clip on the gear box just enough to slip over the motor.



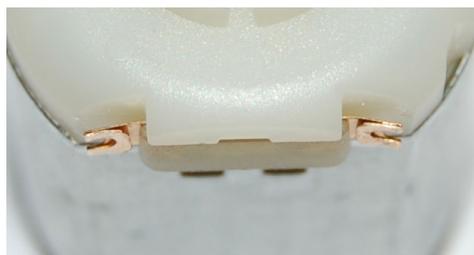
Pull the gear box & wheel assembly away from the motor.



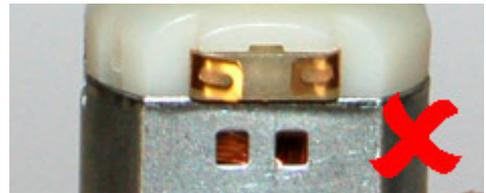
If your terminals have not been folded in half, or have been folded incorrectly, fold them in half now.



Once your terminals have been folded in half, they should look like this.



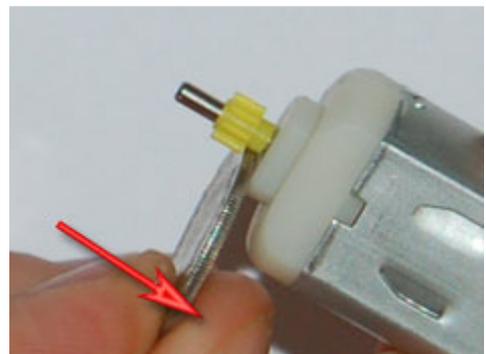
Each of these photos shows the terminals not folded at all or folded incorrectly.



Now check that your motor shaft spins freely.



Use a 5c coin or similar to lever the pinion gear away from the motor about half a millimetre, so it can spin freely.



Refit the gear assembly to the motor module & motor and test one of the driving functions.

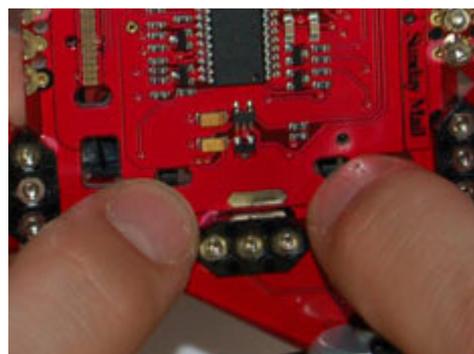


## Nothing is displayed on the robot's screen

If your screen illuminates red, but no text is visible, follow these instructions.



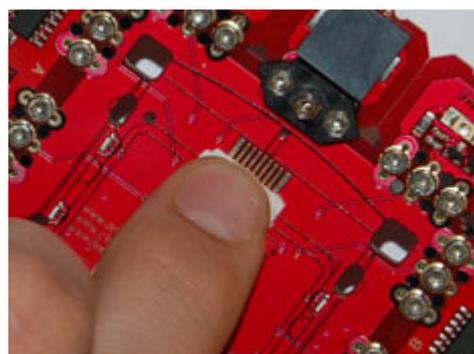
You will need to remove the battery box prior to commencing. Once the battery box is removed, press the LCD screen cover clips through the motherboard.



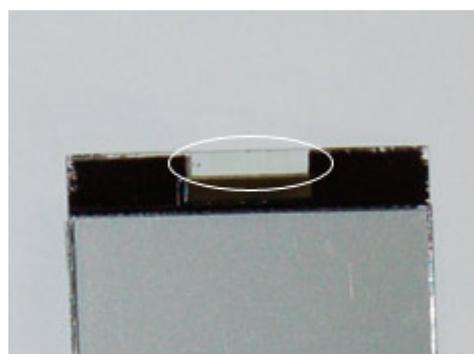
Remove the LCD Cover & screen assembly from the motherboard.



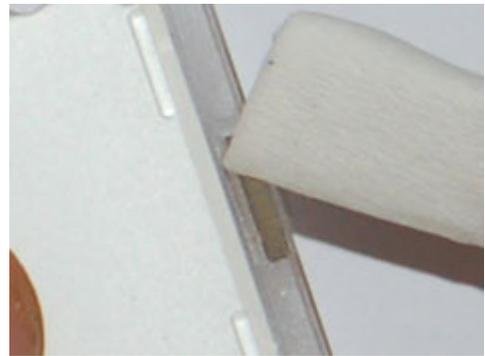
Clean the contact on the motherboard, preferably with a lint free cloth and some audio/video head cleaning solution. An alternative would be a cotton bud and methylated spirits, but ensure there are no fibres left on the board from the cotton bud.



Clean the contact point shown in the above image on the rear of the LCD screen.



Clean both sides of the rubber elastomer strip. If you have used audio/video head cleaner or methylated spirits allow a few minutes for it to dry before continuing.



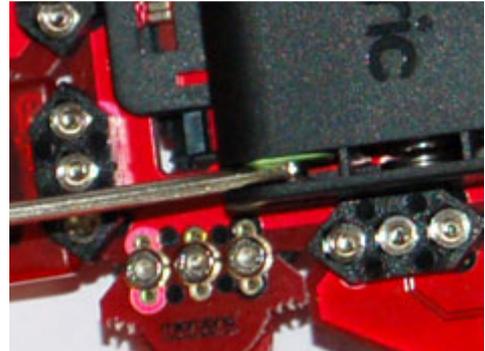
Reassemble the screen & cover, then reinstall the battery box. If you have not had success with cleaning the elastomer & screen contacts it would also be worthwhile flipping the elastomer over.



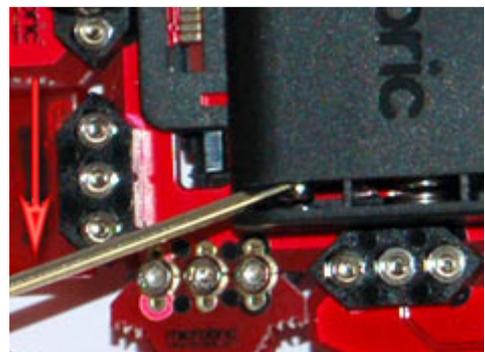
## Battery goes flat while the robot is not in use

To conserve battery power, insert a "Battery Saver" while the Ai2 robot is not in use.

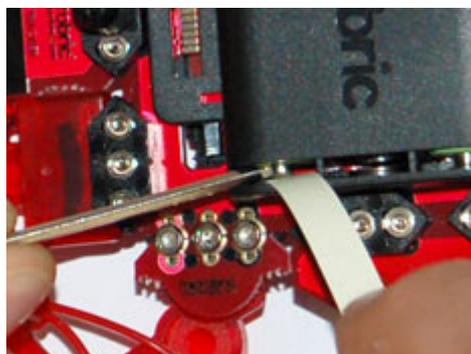
Insert your Allen key into the opening on the battery box between the battery and the case.



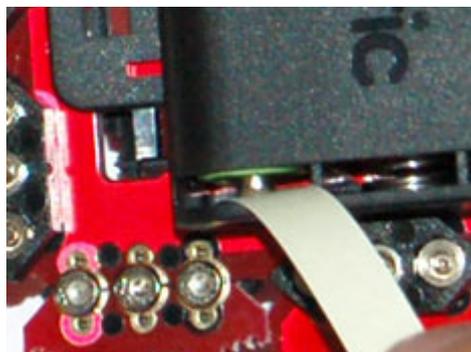
Lever the battery away from the battery terminal by moving the Allen key in the direction of the arrow.



**Insert a piece of paper or plastic in the gap between the battery terminal and the battery box terminal.**



**Remove the Allen key, the battery terminal & the battery box terminal will now hold the saver in place.**



**This is how your battery saver should look once installed.**

