These are the tests to verify the functionality of the electrical connections on the proto board.

Front-left (FR), front-right (FR), rear-left (RL), rear-right (RR)

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| **# Test** | **Name** | **Description** | **Result** | **Success** |
| 1 | Simple electromagnet | One by one, the digital pins of the transistors are put on high for 2 seconds, then on low.  (FL, FR, RL, RR) | Each electromagnet is on for 2 seconds, then completely off. (FL, FR, RL, RR) | YES |
| 2 | Two electromagnets | The digital pins of two transistors are put on high for 2 seconds, then on low. The process is repeated for the other two. (FL - FR, RL - RR) | FL and FR are on for 2 seconds, then completely off. RL and RR are on for 2 seconds, then completely off. | YES |
| 3 | All electromagnets | The digital pins of all the transistors are put on high for 5 seconds, then on low. | All the electromagnets are on for 5 seconds, then completely off. | YES |
| 4 | Simple angular servos | One by one, the servos are assigned to 90°, then to 110°. (FL, FR, RL, RR) | One by one, each servo goes to 90°, the to 110° (FL, FR, RL, RR) | YES |
| 5 | All angular servos | All the servos are assigned to 90°, then to 110° | All the servos go to 90°, then to 110° | YES |
| 6 | All electromagnets and simple servos | The digital pins of all the transistors are put on high. Redo test #4. Then put the transistors pins on low after 5 seconds. | All the electromagnets are on while results of test #4 are occurring, Then, after 5 seconds, the electromagnets are completely off. | YES |