

## Situation 5 Left Motor Fault: THREE flashes of status LED

The power chair interprets different faults by monitoring voltages and resistance values within the system. This error indicates that the power chair detects an “open” in the left motor or the left motor wiring. In order to determine exactly where the fault lies, unplug the 4-pin M1 harness of the power module. See Appendix H. Plug the harness back in and ensure that it has a good connection. Cycle the power on and off and see if the fault is still occurring. If it is, unplug this harness and turn the meter to a resistance scale. Take a reading across motor positive and motor negative on the M1 harness (two larger pins) after removing it from the power module. See figure 2.70.

If the system is working properly, you should get a reading approximately .5 to 1.5 ohms.

The meter reads \_\_\_\_\_ ohms.



Figure 2.70. M1 Harness



**If the reading appears within tolerance, replace the power module. If not, check the 4-pin connector to the motor to see if there is a bad connection.**

Take a resistance reading from the heavy gauge red and black wires that run to the motor coil. See figure 2.71.



**Some chairs have red and black connectors attached to these wires.**

The reading across the motor coil should read approximately .5 to 1.5 ohms.



Figure 2.71. Motor Coil



**If the reading appears outside tolerance, check the brushes. If the brushes appear to be good (a good brush should be at least 1/2" in length, with no sign of chips or damage and no sign of overheating), replace the motor. If the reading is within tolerance, replace the M1 harness.**



**Overheating in the brushes can be identified by discoloration of the braided copper wire.**