

## Situation 11 Brake Fault: NINE flashing LEDs (3 red, 4 yellow, 2 green)

A brake fault indicates a possible problem with the power chair's braking system. The power chair is set up with two individual brake assemblies, one on each motor. When the joystick is pushed in any direction, the controller sends 24 volts to each brake coil. To determine if each brake assembly is operating properly, unplug both the M1 and M2 harnesses from the power module. See Appendix I.

Turn the meter to a resistance scale and take a reading from the brake negative and the brake positive of the M1 harness (two smaller pins) for the left motor. See figure 2.51.

A reading of approximately 60 ohms should appear.

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

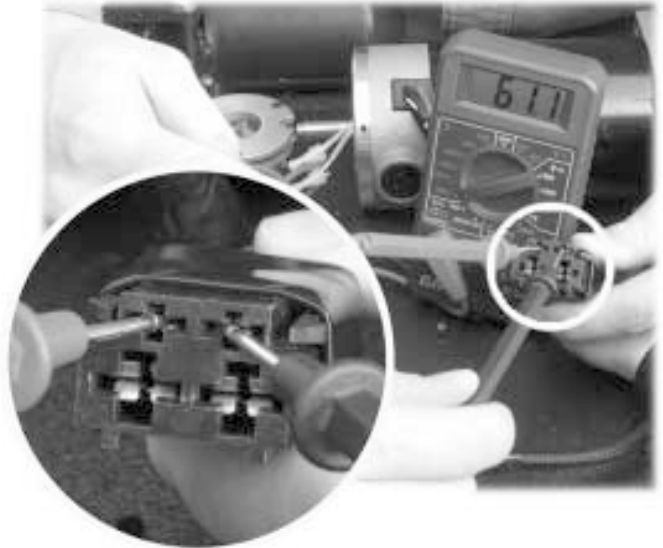


Figure 2.51 M1 Harness



**If the reading is outside tolerance, proceed to the 4-pin motor connector. If the reading is within tolerance, skip the next step and proceed to the M2 harness.**

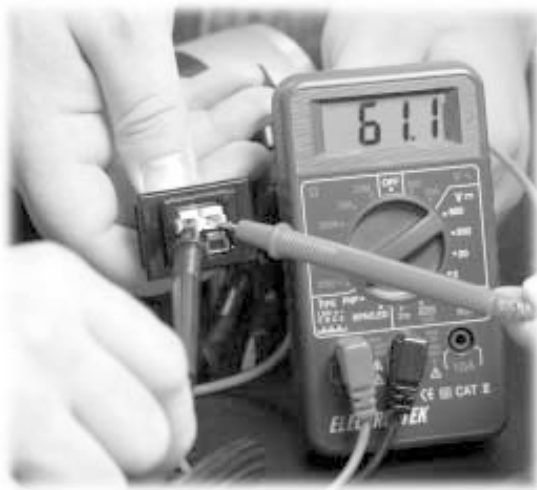


Figure 2.52. Motor Connector

To take a reading from the 4-pin motor connector, unplug the connection and take a reading from the thin gauge black wires that run to the brake coil. See figure 2.52.



**Some chairs have white connectors attached to these wires.**

If the brake coils are intact, you should read approximately 60 ohms.

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



**If the reading is outside tolerance, replace the motor brake assembly. If the reading is within tolerance, replace the M1 harness.**

### Notes:

Take a reading from the brake negative and the brake positive (two smaller pins) of the M2 harness for the right motor. See figure 2.53.

A reading of approximately 60 ohms should appear.

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

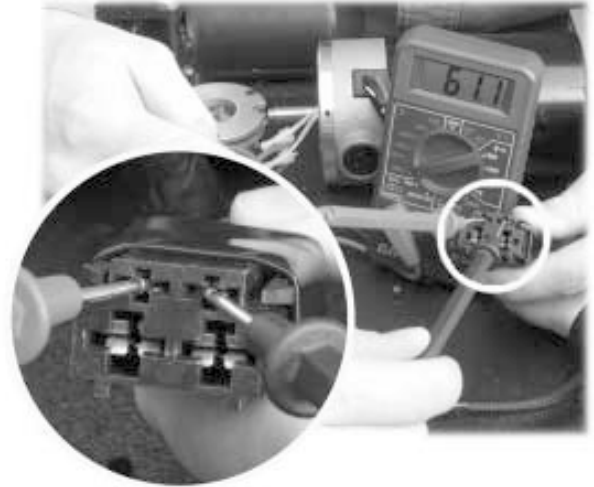


Figure 2.53. M2 Harness



**If the reading is within tolerance, replace the power module. If not, proceed to the 4-pin motor connector.**

To take a reading from the 4-pin motor connector, unplug the connection and take a reading from the thin gauge black wires that run to the brake coil. See figure 2.54.



**Some chairs have white connectors attached to these wires.**

If the brake coils are intact, you should read approximately 60 ohms.

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

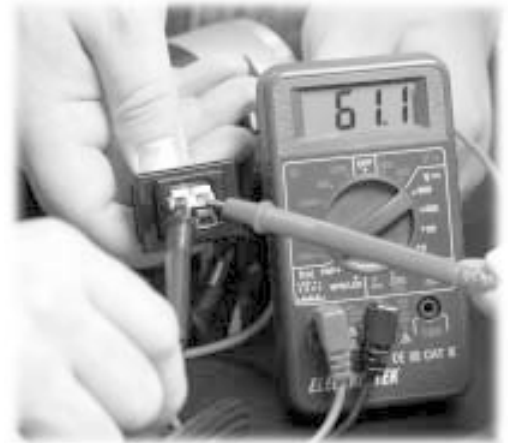


Figure 2.54 Motor Connector



**If the reading is outside tolerance, replace the motor brake assembly. If the reading is within tolerance, replace the M2 harness.**

**Notes:**