Situation 2
Will not drive
PG VSI Through Joystick

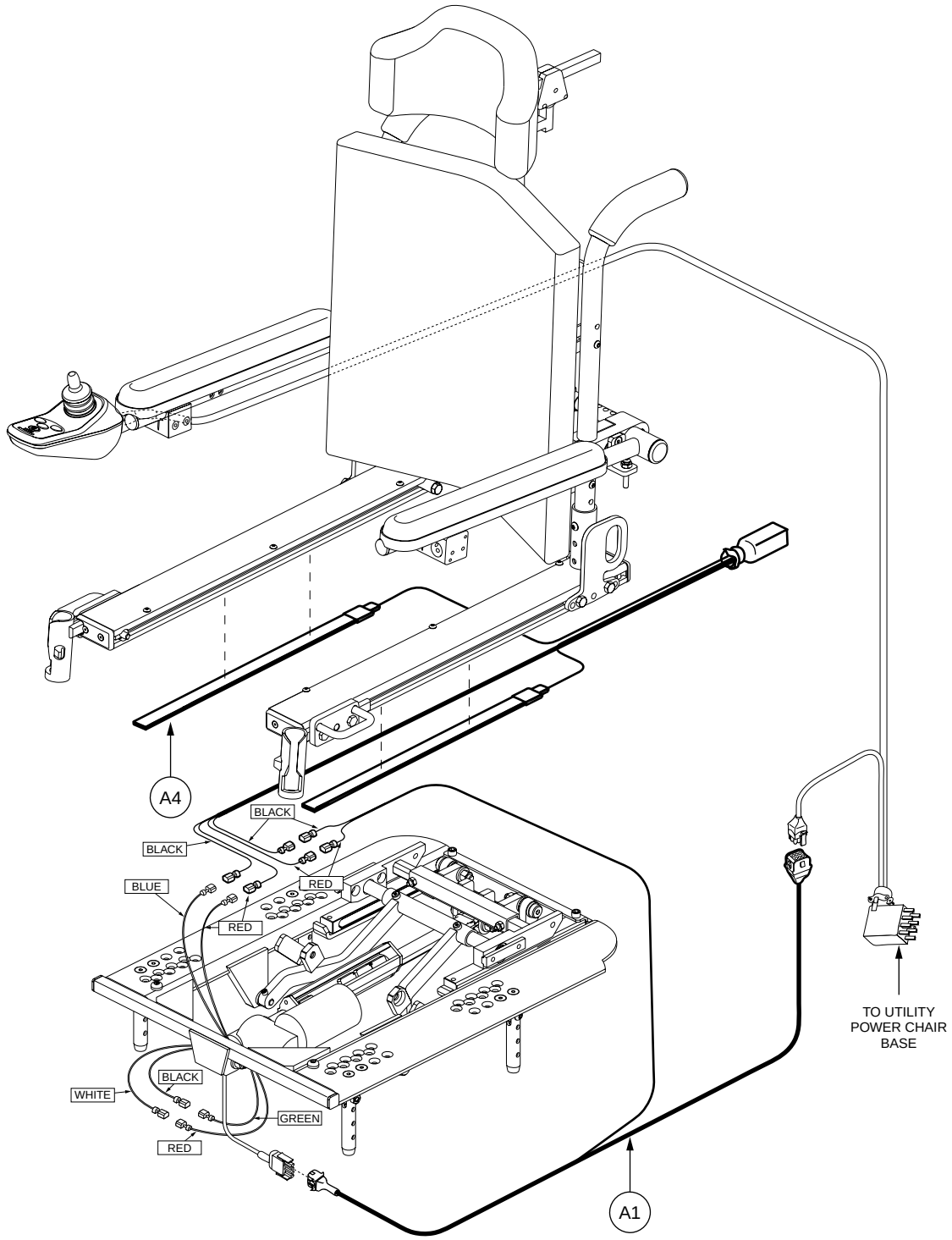

Figure 4.130. Wiring Diagram

Before you get started, be sure the tilt system is in the lowest position. Activate the actuator buttons and push the joystick forward. The actuator motor will spin and the seating system will tilt down. See figure 4.131.

Locate the power indicator bars on the VSI joystick. See figure 4.131.

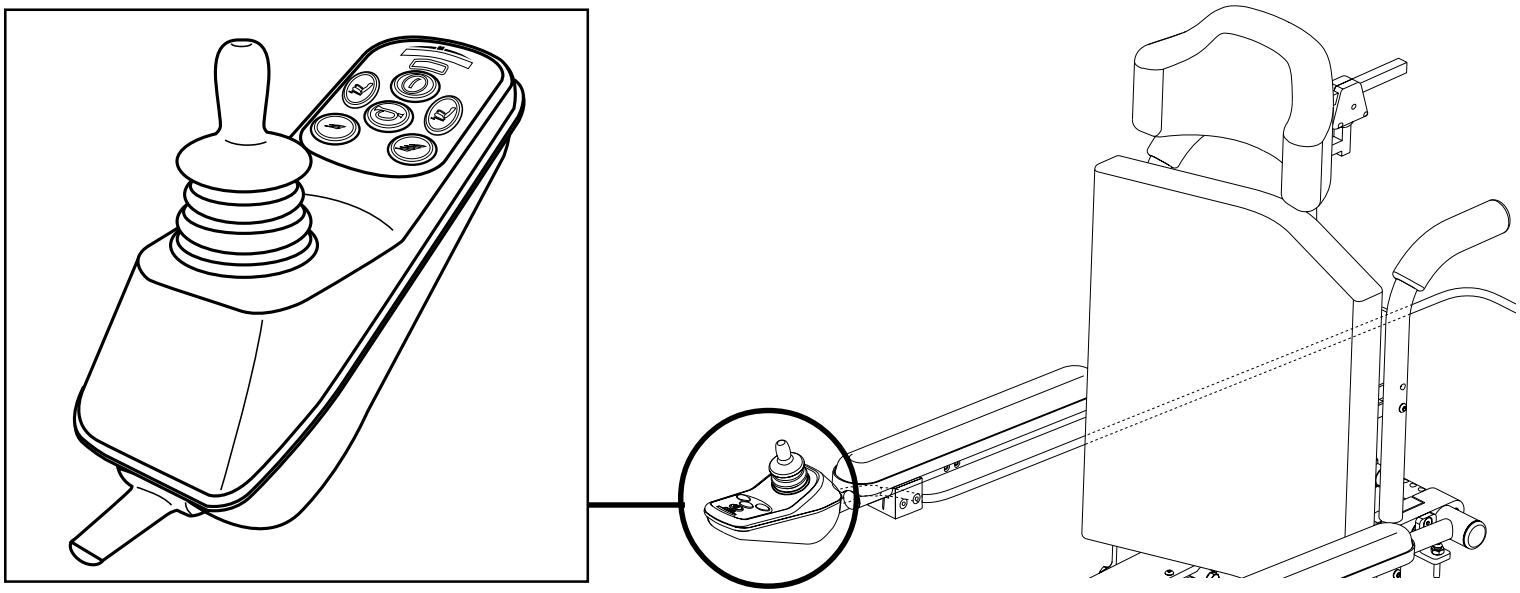

Figure 4.131. Tilt Position

If any of the bars are flashing, refer to the 9-Pin Diagnostic section of this guide to correct the fault. If no bars are flashing, proceed to the next step.

Locate the rectangular 6-pin connector that connects the harness (A1) to the VSI. Verify that the connectors are mated properly. See figure 4.132.

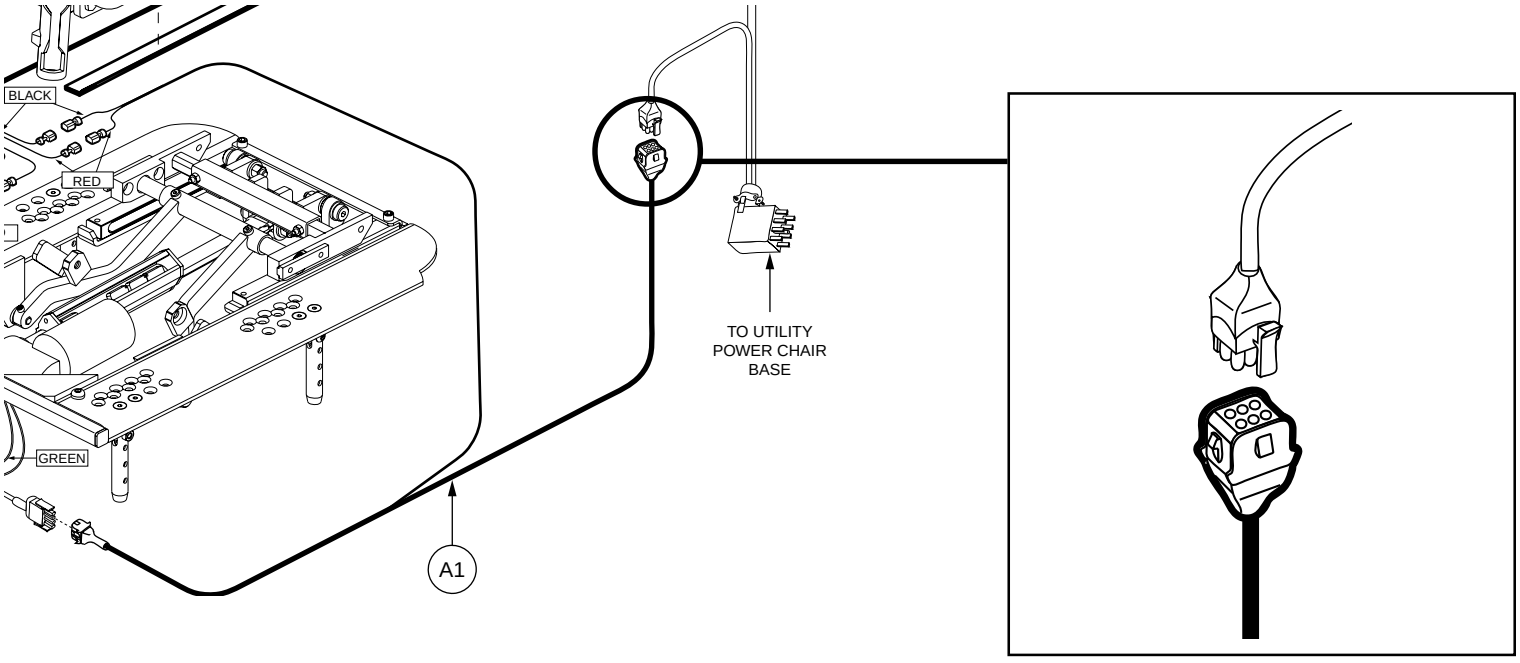

Figure 4.132. 6-Pin Connector Test (VSI)

If the connectors are not correctly mated, reconnect and retest the power chair. If the connectors are properly connected or the retest produces the same results, proceed to the next step.

Disconnect the rectangular 6-pin connector (VSI harness). On the VSI side, jump pins the indicated pins together. See figure 4.133.

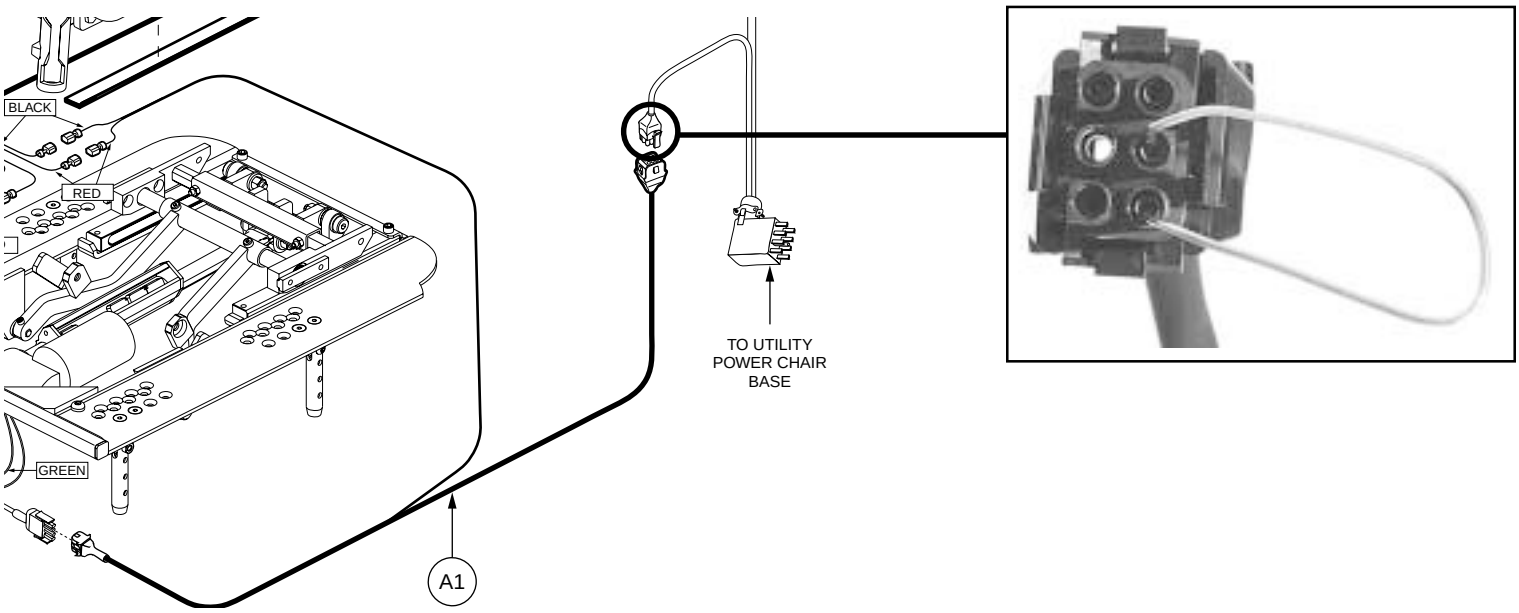

Figure 4.133. 6-Pin Connector (VSI Side)

If the chair still will not drive, the problem is within the VSI. Replace the VSI. If the chair drives, proceed to the next step.

Locate the rectangular 6-pin connector of the harness (A1). With the meter set to its lowest resistance scale, take a resistance reading from the two indicated pins. With the tilt in the full down position, there should be continuity of less than one ohm. See figure 4.134.

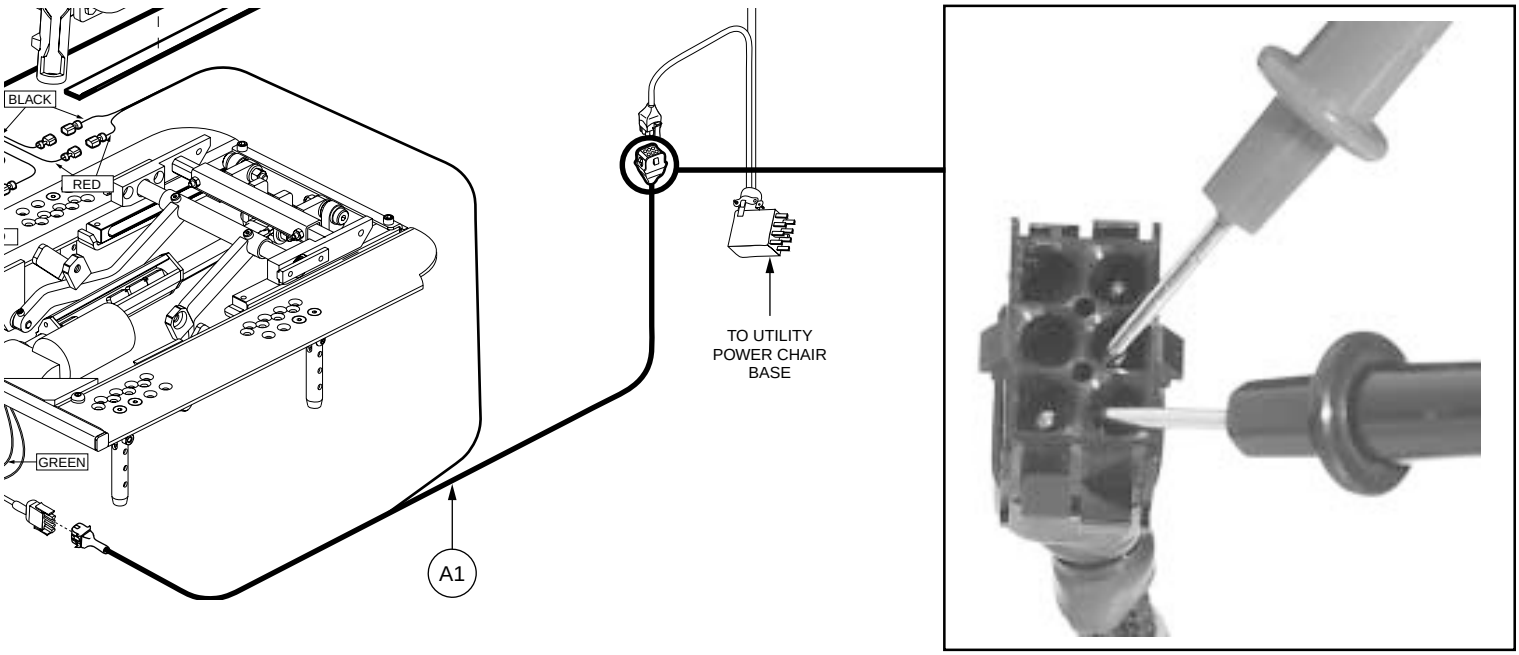

Figure 4.134. 6-Pin Connector (Harness)

The meter reads_____ohms

If the meter reads continuity, reconnect the harness (A1) to the VSI harness. If the unit still will not drive, look for damage or corrosion on the pins. If the meter reads an "open," proceed to the next step.

Locate the 4-pin connector that comes from the actuator and connects to the harness (A1). Disconnect the two connectors. Adjust the meter to its lowest resistance scale. On the A1 side of the connectors, take a resistance reading from one inside pin to the other inside pin. The reading should indicate continuity. See figure 4.135.

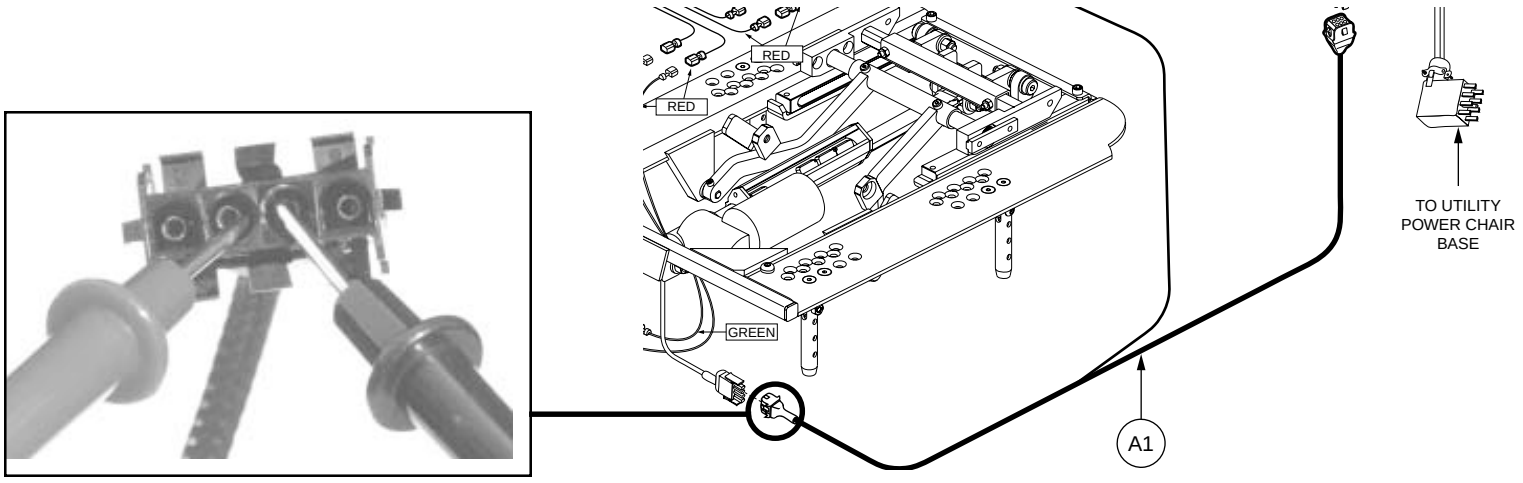

Figure 4.135. 4-Pin Connector Resistance Test

The meter reads_____ohms

If continuity is not present, replace the harness (A1) . If continuity is present, proceed to the next step.

On the A1 side of the flat 4-pin connector, jump the two outside pins together. See figure 4.136.

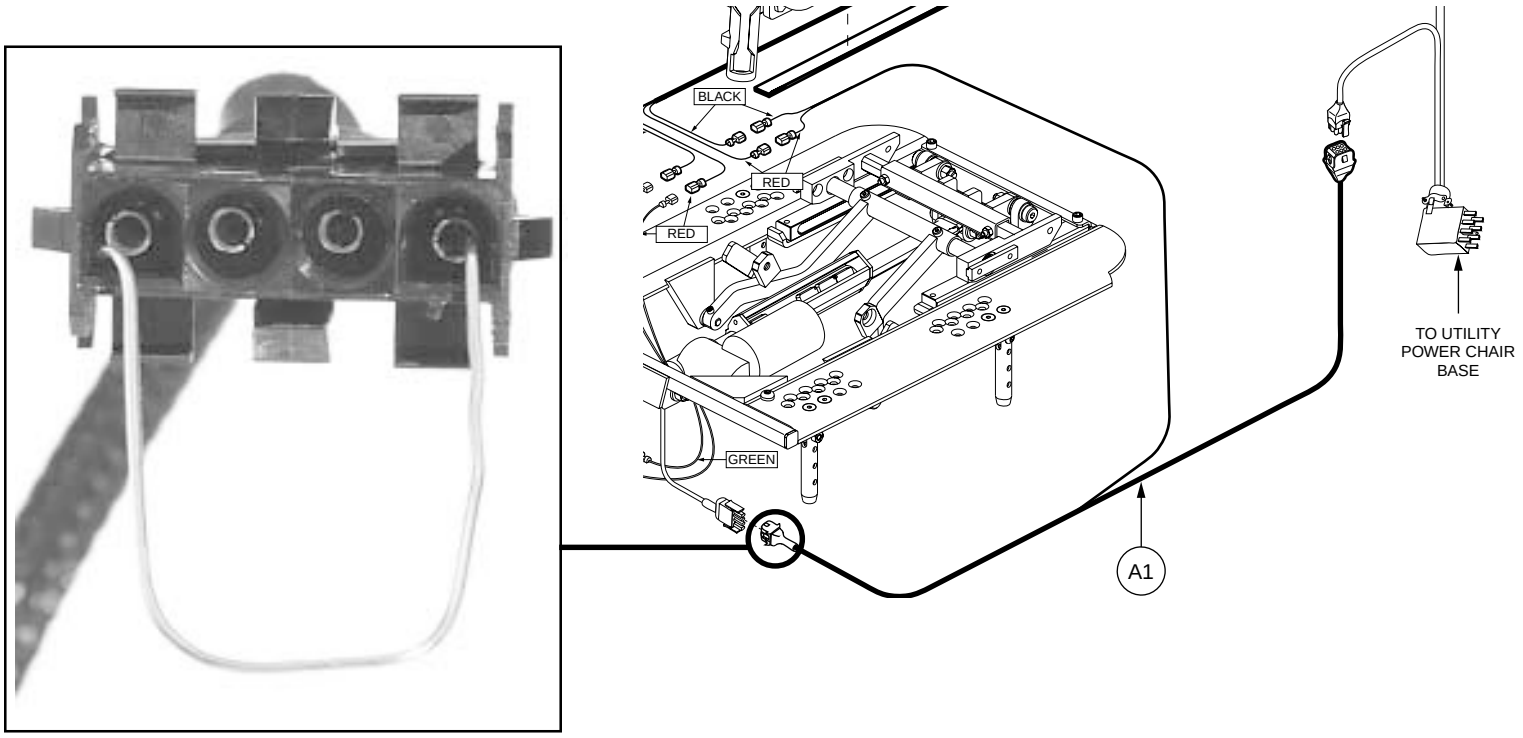

Figure 4.136. 4-Pin Connector Jump Test

If the chair drives, there is a problem within the actuator's limit switches. Replace the actuator assembly. If the chair still will not drive, replace the harness (A1).