

Situation 2

Will not drive

PG Remote Plus Through Toggle

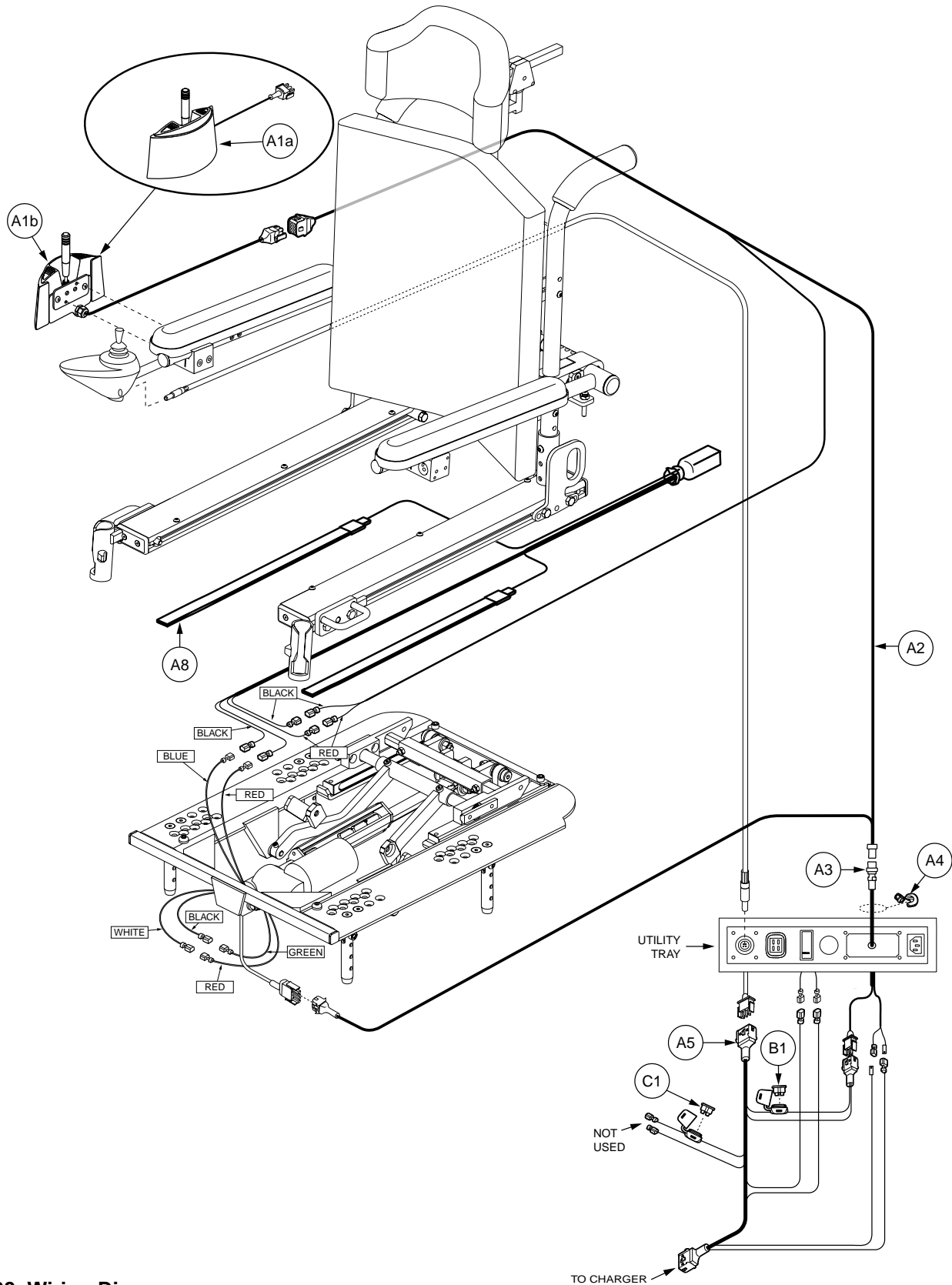


Figure 4.108. Wiring Diagram

Before beginning, be sure the tilt system is in the lowest position. Push the toggle switch forward. The actuator motor will spin and the seating system will tilt down.

Locate the power indicator bars on the remote plus joystick. If any of the bars are flashing, this indicates a fault in the power base. See figure 4.109.

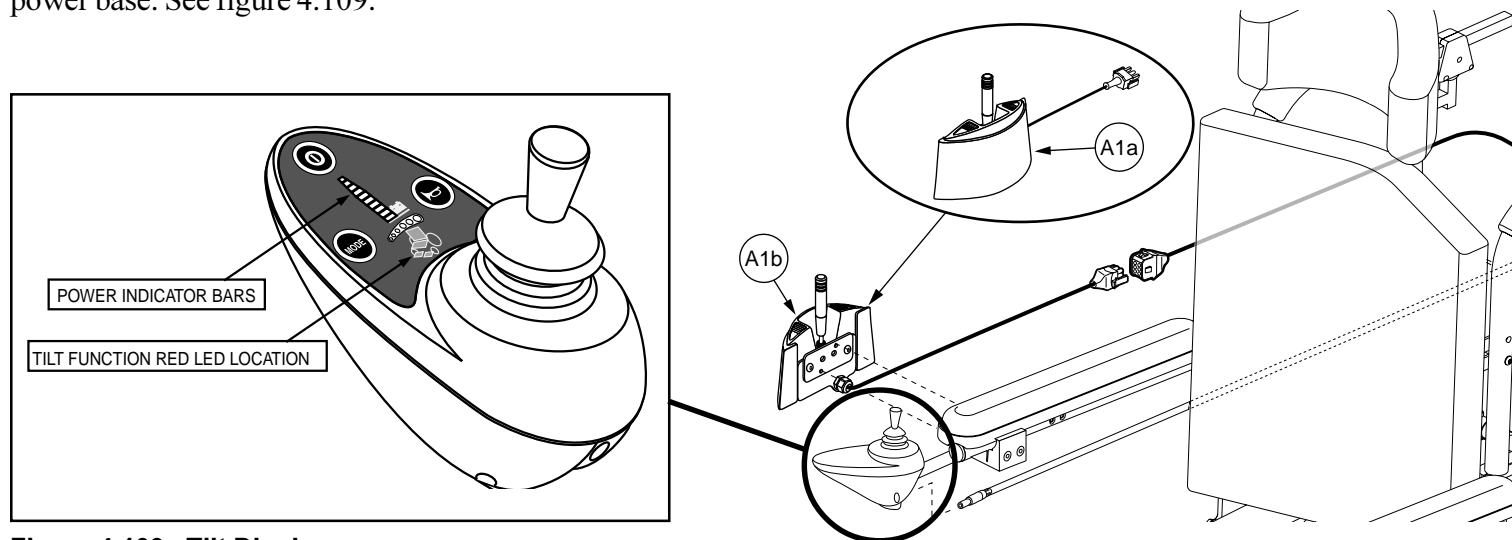


Figure 4.109. Tilt Display



If any of the bars are flashing, refer to the Power Chair section of the diagnostic guide to correct the fault. If no bars are flashing, proceed to the next step.

Locate the round connector coming out of the utility tray harness (A3). See figure 4.110. Verify that the round connector is mated properly to the round connector on the harness (A2).

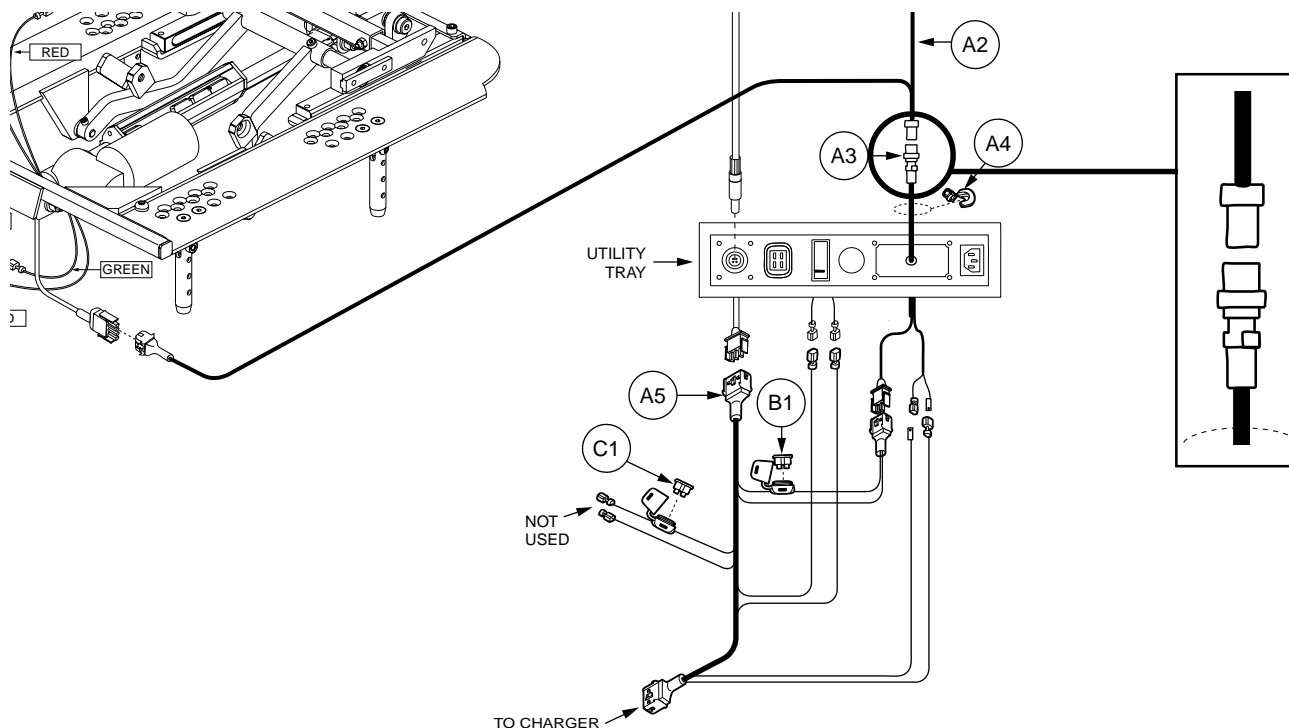


Figure 4.110. Connector Test



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 round 4-pin connector of the harness (A2/A3). Locate the two female pins in the connector (A3). Jump the two female pins together and try to drive the power chair. See figure 4.111.



WARNING! Be sure you are jumping the two female pins. Jumping the two male pins will cause a direct short.

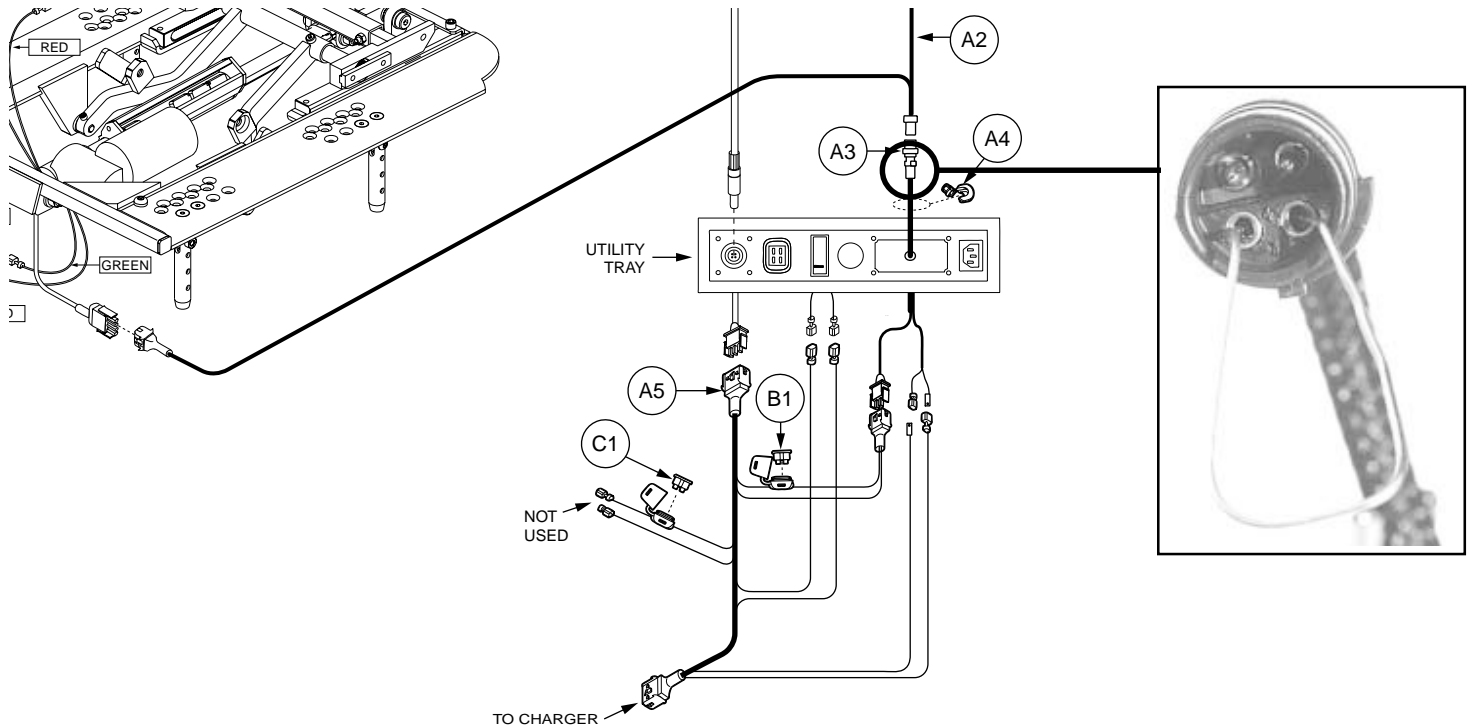


Figure 4.111. Connector Female Pins Test



If the chair runs, the problem is in the Synergy Seating System (skip power base section, refer directly to Synergy Seating Section). If the chair still does not run, proceed to the next step in the Power Base Section (leave the round 4-pin connector disconnected).

Notes:

Power Base Section

Locate the two spade connectors on the harness (A3) under the utility tray. Disconnect them from the harness (A5) and adjust the meter to its lowest resistance scale. Take a resistance reading from the female spade connector on the harness (A3) to the indicated pin on the female connectors of the round 4-pin connector. There should be continuity (approximately less than one ohm) from one spade connector to one of the female connectors on the round 4-pin connector. See figure 4.112.

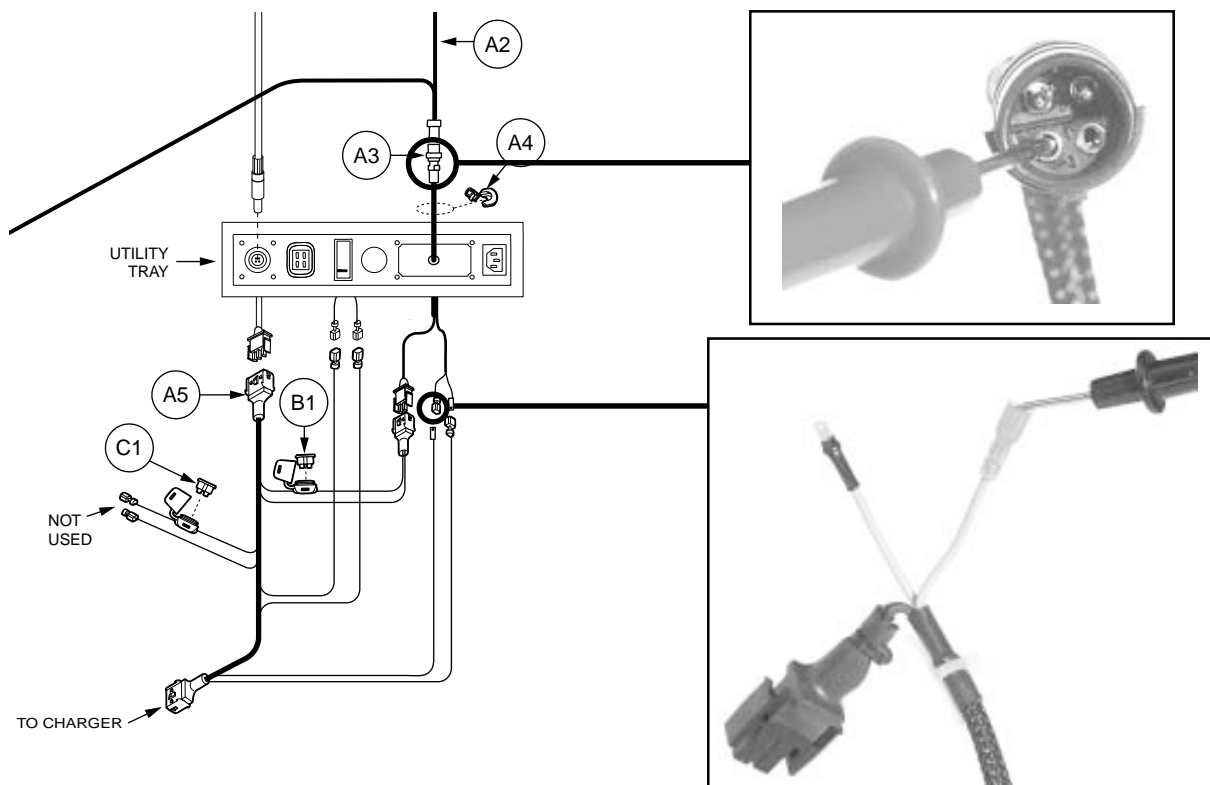


Figure 4.112. Connector Female Pins Test

The meter reads _____ ohms



If continuity is not obtained, replace the harness (A3). If continuity is present, proceed to next step.

Notes:

Take a resistance reading from the male spade connector on the harness (A3) to the other female pin in the round 4-pin connector of the harness (A3). The reading should be less than one ohm. See figure 4.113.

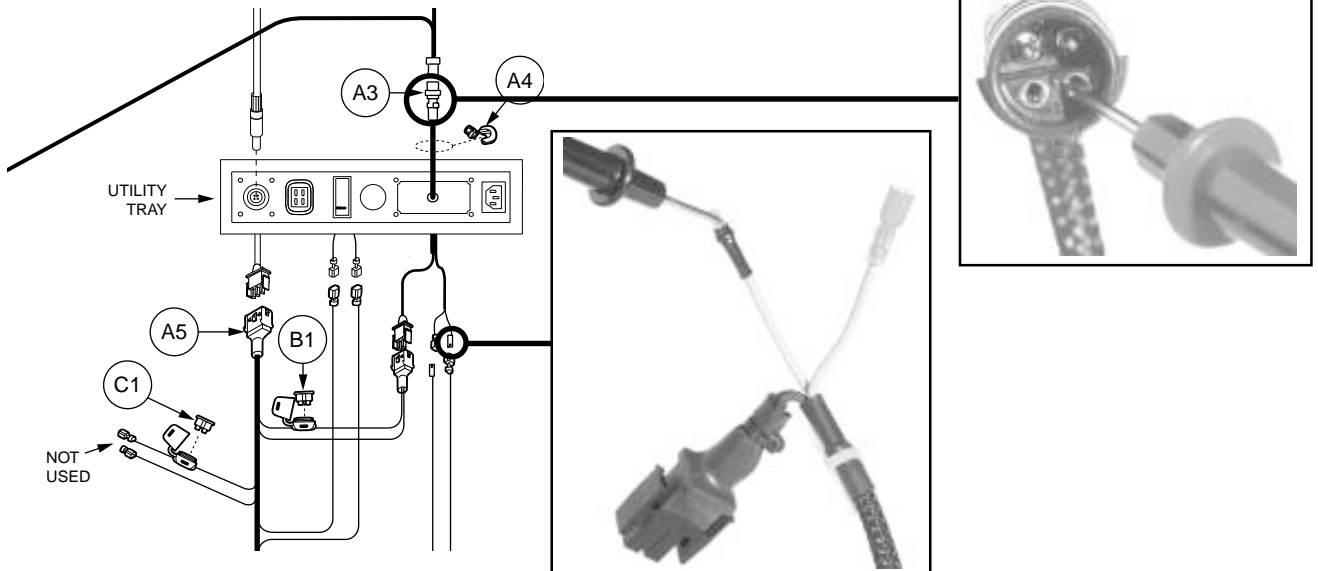


Figure 4.113. Male to Female Connector Pins Test

The meter reads _____ ohms



If continuity is not obtained, replace the harness (A3). If continuity is present, proceed to the next step (leave the spade connectors disconnected).

Locate the harness (A5) under the utility tray. Connect together the spade connectors of the harness (A5) that would normally go to the harness (A3). Disconnect the 3-pin connector of the harness (A5) that leads to the charger. Disconnect the other 3-pin connector of the harness (A5) that leads to the utility tray.

Take a resistance reading from the middle pin of the 3-pin connector that was just disconnected from the charger (A5 harness side), to the middle pin of the 3-pin connector that was disconnected from the utility tray (A5 harness side). There should be continuity from one middle pin to the other middle pin. See figure 4.114.

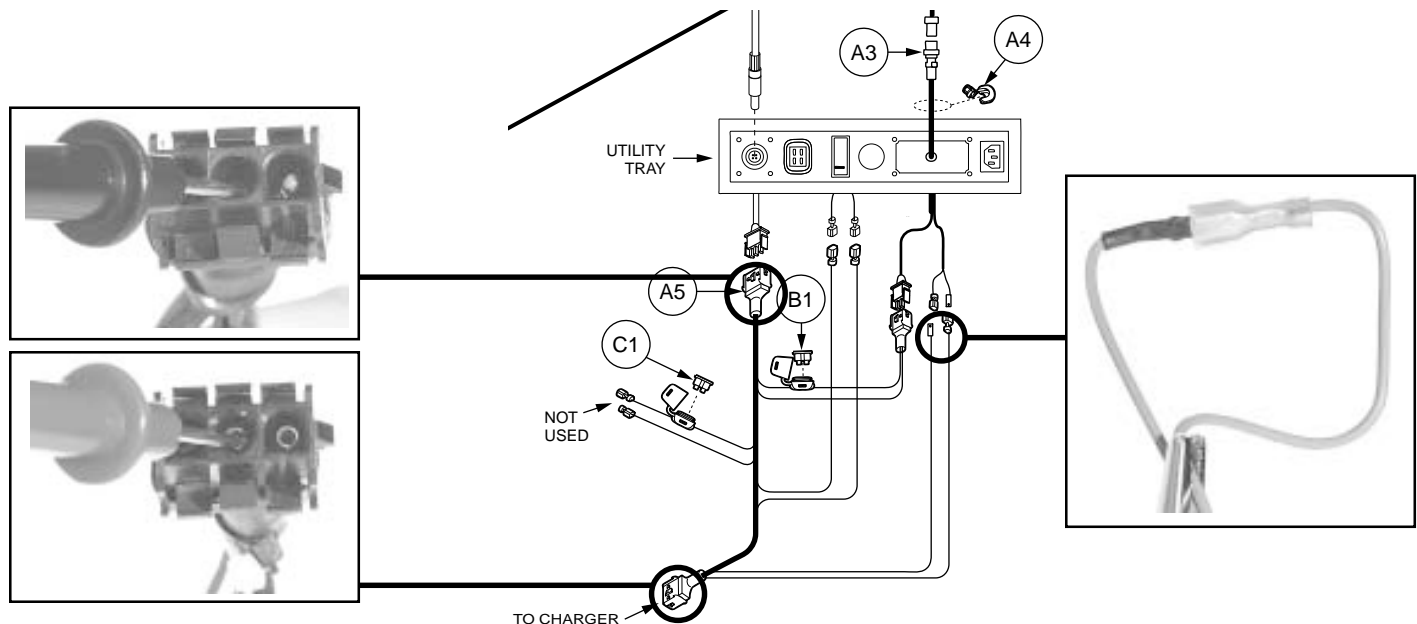


Figure 4.114. Harness Connectors Test

The meter reads _____ ohms



If continuity is not present, replace the harness (A5). If continuity is present, there is a problem with the inhibit system of the power base. Refer to the Remote Plus troubleshooting section to resolve the problem (leave the two spade connectors connected together).

Synergy Seating Section

Locate the round 4-pin connector of the harness (A2). Take a resistance reading from one male pin of the round 4-pin connector to the other male pin of the round 4-pin connector. With the tilt in the lowest position, there should be continuity less than one ohm. See figure 4.115.

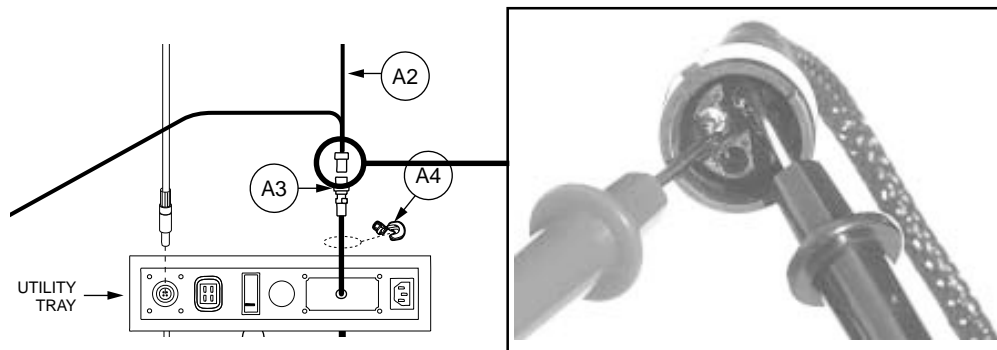


Figure 4.115. Harness Test

The meter reads _____ ohms



If the meter reads continuity, reconnect the A2 harness to the harness (A3). 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 (A2). Disconnect the two connectors. On the A2 side of the connectors, measure a resistance from one inside pin to the other inside pin. The reading should indicate continuity. See figure 4.116.

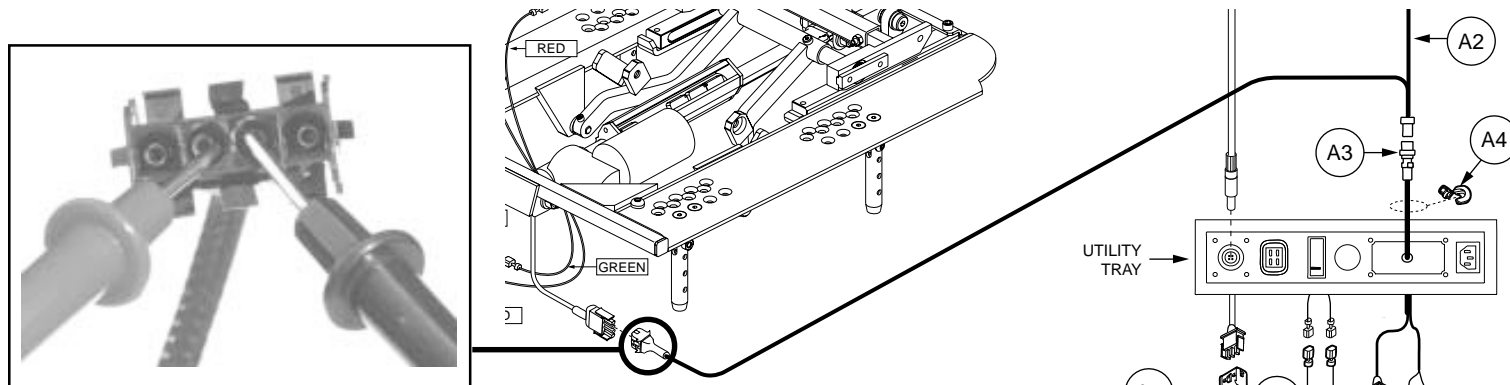


Figure 4.116. Actuator/Connector Test (Inside Pins)

The meter reads _____ ohms



If continuity is not present, replace the harness (A2). If continuity is present, proceed to the next step.

On the A2 side of the flat 4-pin connector, jump the two outside pins together. Try to drive the power chair. See figure 4.117.

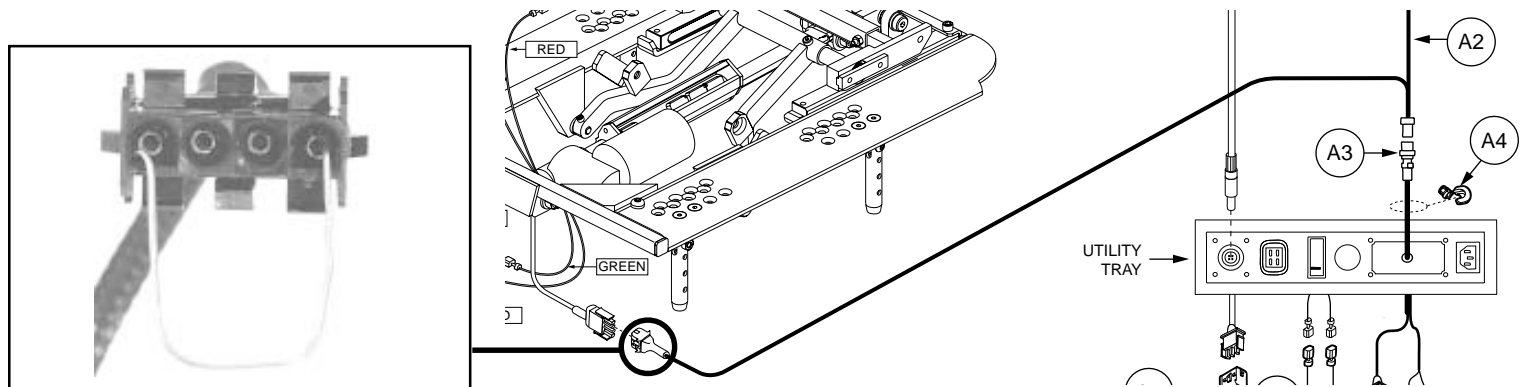


Figure 4.117. Actuator/Connector Test (Outside Pins)



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 (A2).

Notes: