

# Situation 2

## Will not drive

### PG Remote Plus Through Joystick

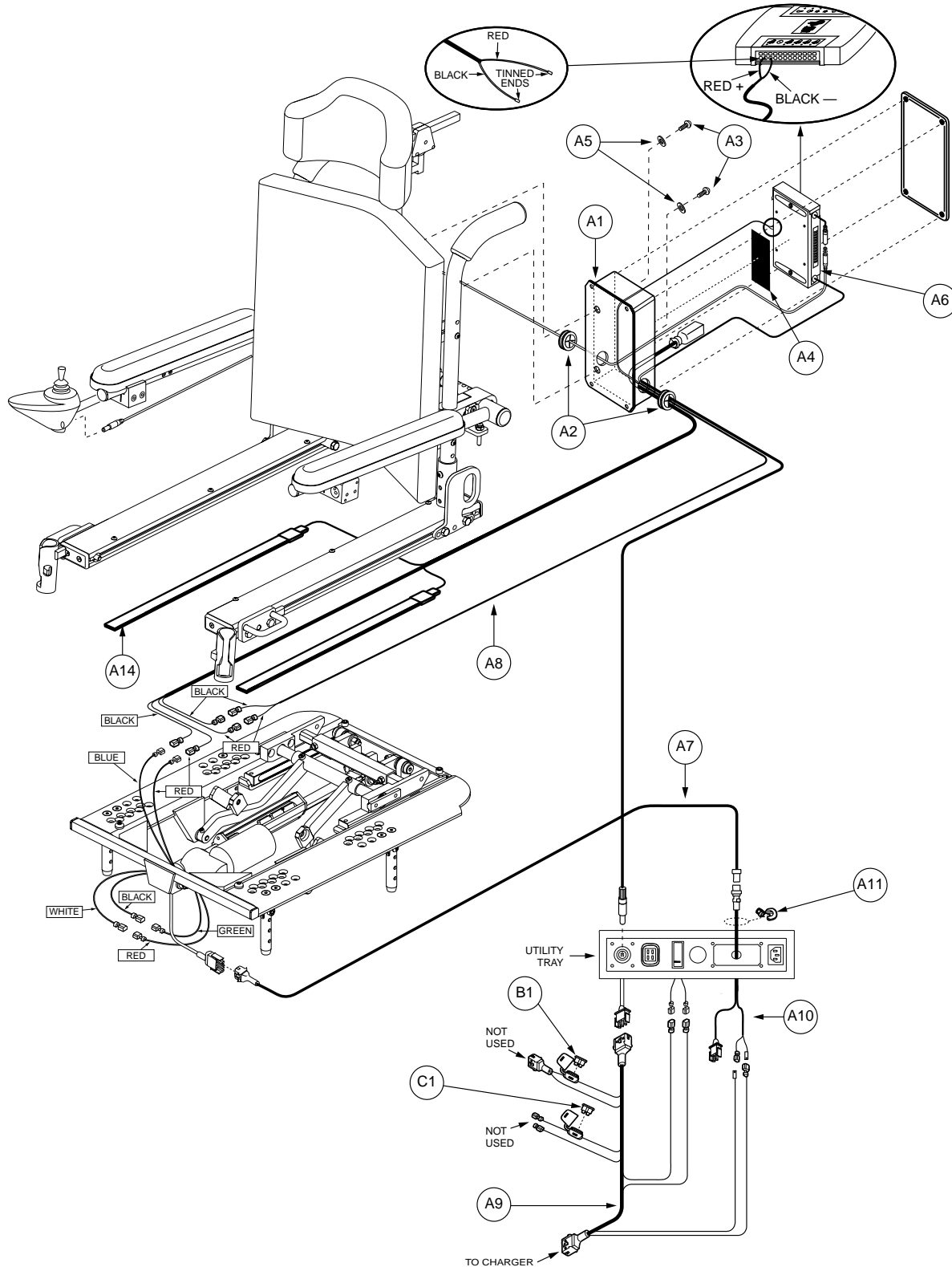
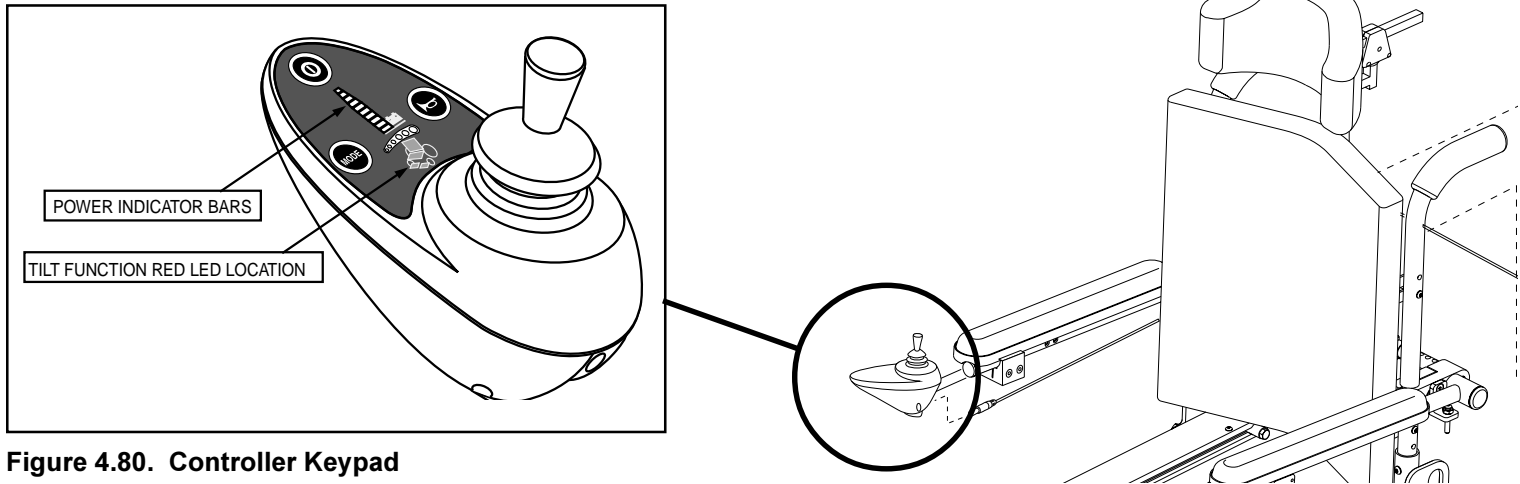


Figure 4.79. Remote Plus Through Joystick Electronics



**Before you get started, be sure the tilt system is in the lowest position.**

Toggle the joystick into actuator mode and push the joystick forward. If the tilt is tilted even a little, you will hear the actuator motor 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 4.80.

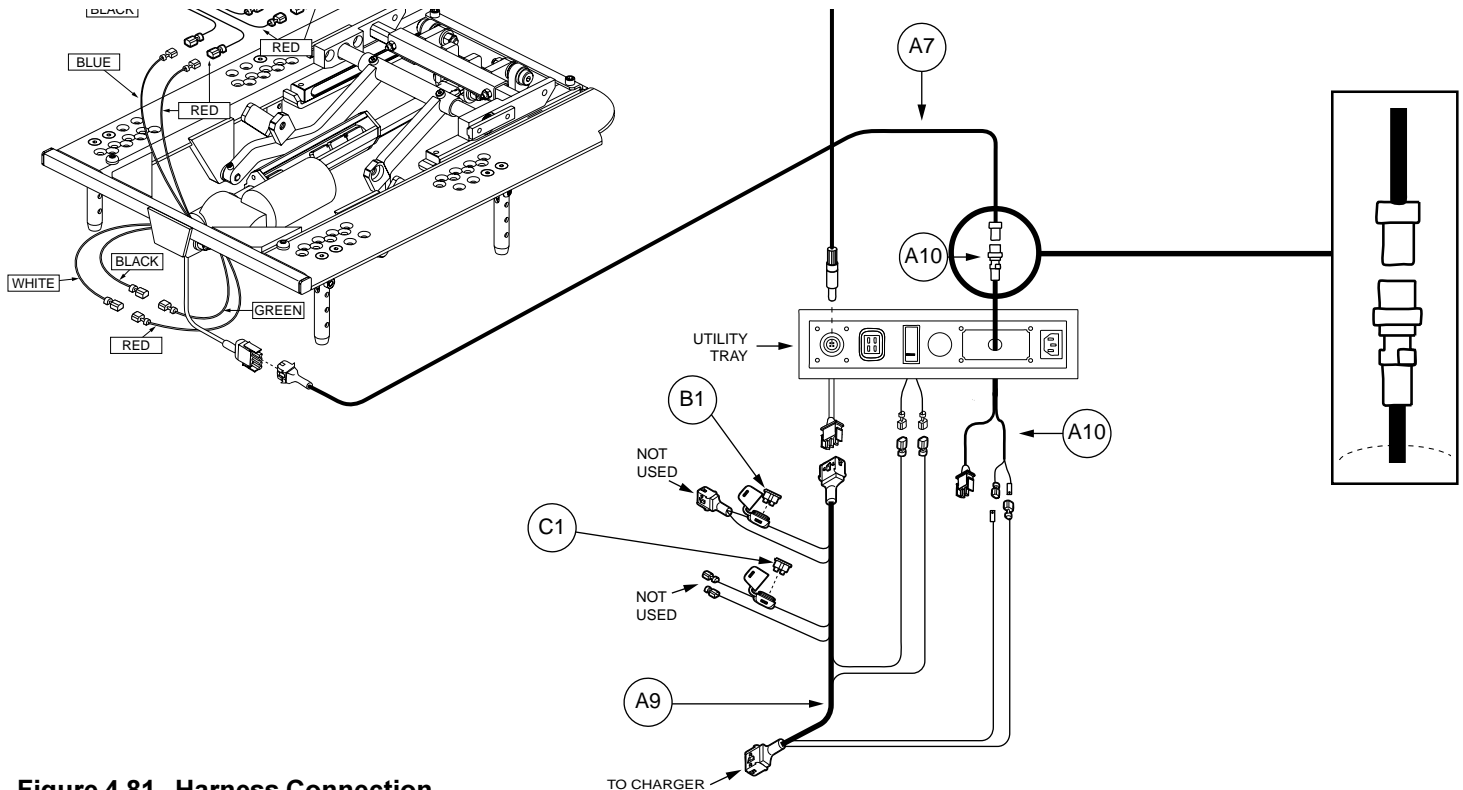


**Figure 4.80. Controller Keypad**



**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 (A10). Verify that the round connector is mated properly to the round connector on the harness (A7). See figure 4.81.



**Figure 4.81. Harness Connection**



**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.**



The diagram illustrates the connection of the A7 cable to the utility tray and the A10 cable to the A7 cable. The utility tray is shown with various ports, including a circular port labeled A7, a rectangular port labeled A10, and a square port labeled B1. The A7 cable is connected to the circular port, and the A10 cable is connected to the rectangular port. The B1 port is labeled "NOT USED". A close-up of the A7 cable connector is shown on the right, with labels for the internal wiring: BLACK, BLUE, RED, WHITE, BLACK, GREEN, and RED.



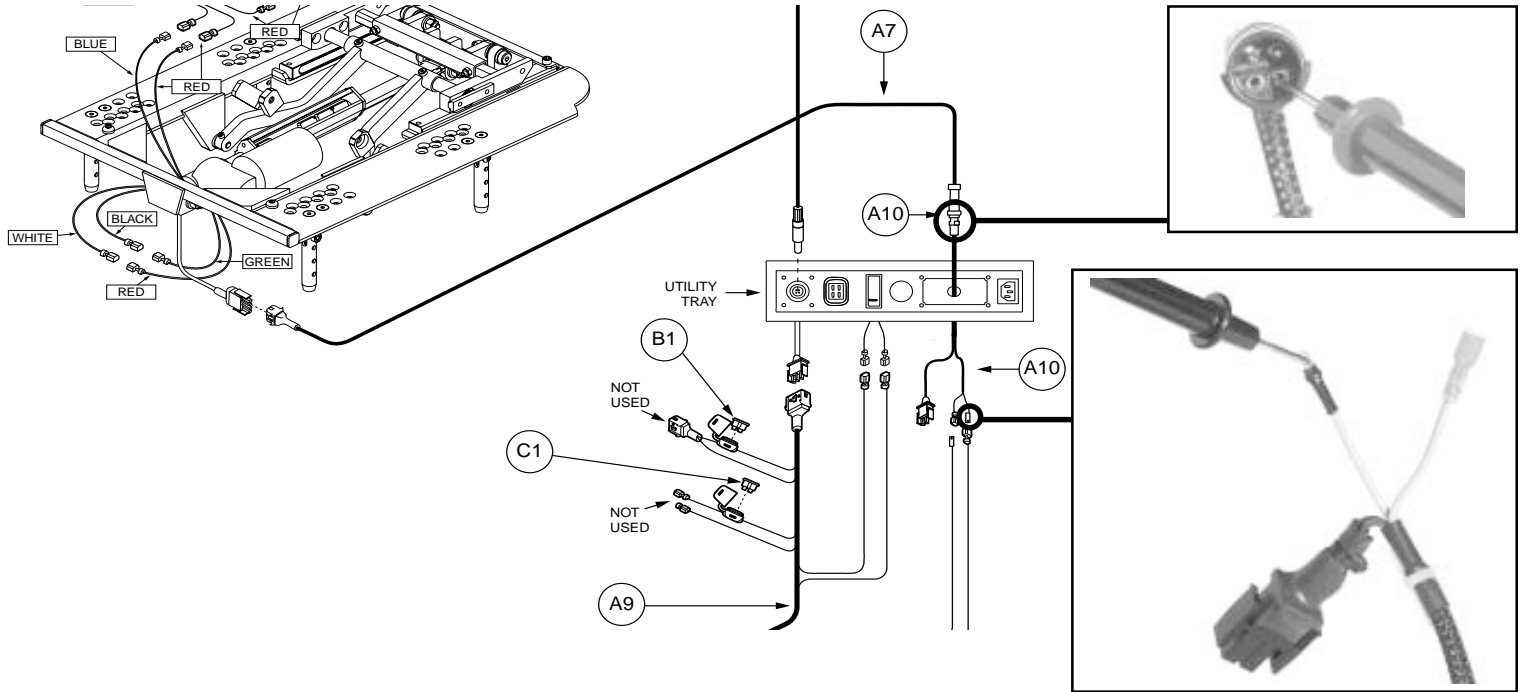
## Power Base Section

The meter reads                      ohms



**If continuity is not obtained, replace the harness (A10). If continuity is present, proceed to next step.**

With the meter set to its lowest resistance scale, take a resistance reading from the male spade connector on the harness (A10) to the other female pin in the round 4-pin connector of the harness (A10). The reading should indicate continuity (less than one ohm). See figure 4.84.



**Figure 4.84. Male Spade Connector/Female 4-Pin Connector Test**

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



**If continuity is not obtained, replace the harness (A10). If continuity is present, proceed to the next step (leave the spade connectors disconnected).**

**Notes:**



Locate the harness (A9) under the utility tray. Connect the spade connectors of the harness (A9) that would normally go to the harness (A10). Disconnect the 3-pin connector of the harness (A9) that leads to the charger, and disconnect the other 3-pin connector of the harness (A10) 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 (A9 harness side), to the middle pin of the 3-pin connector that was disconnected from the utility tray (A9 harness side). There should be continuity from one middle pin to the other middle pin. See figure 4.85.

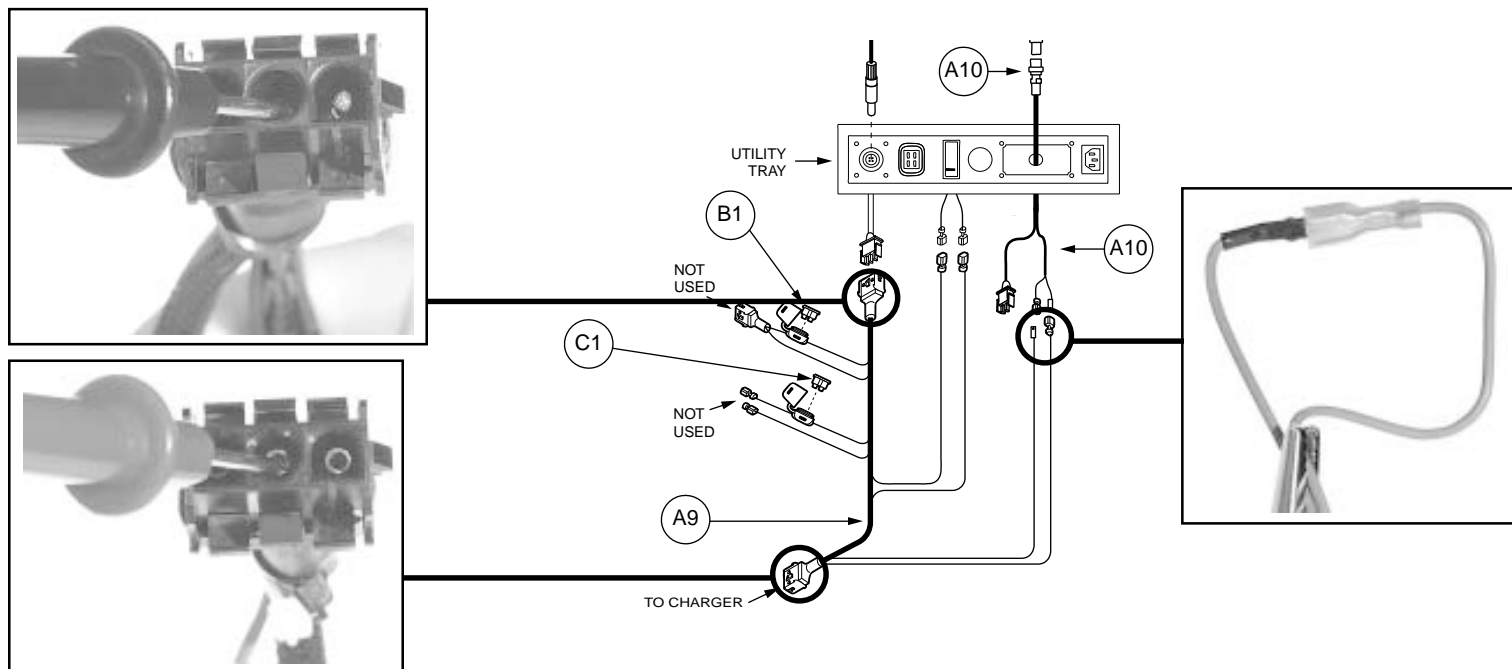


Figure 4.85. Harness Test

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



**If continuity is not present, replace the harness (A9). If continuity is present, there is a problem with the inhibit system of the power base. Refer to the Power Chair Remote Plus technical product guide to troubleshoot the problem (leave the two spade connectors connected together).**

## Synergy Seating Section

Locate the round 4-pin connector of the harness (A7). 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 full down position, there should be continuity (less than one ohm). See figure 4.86.

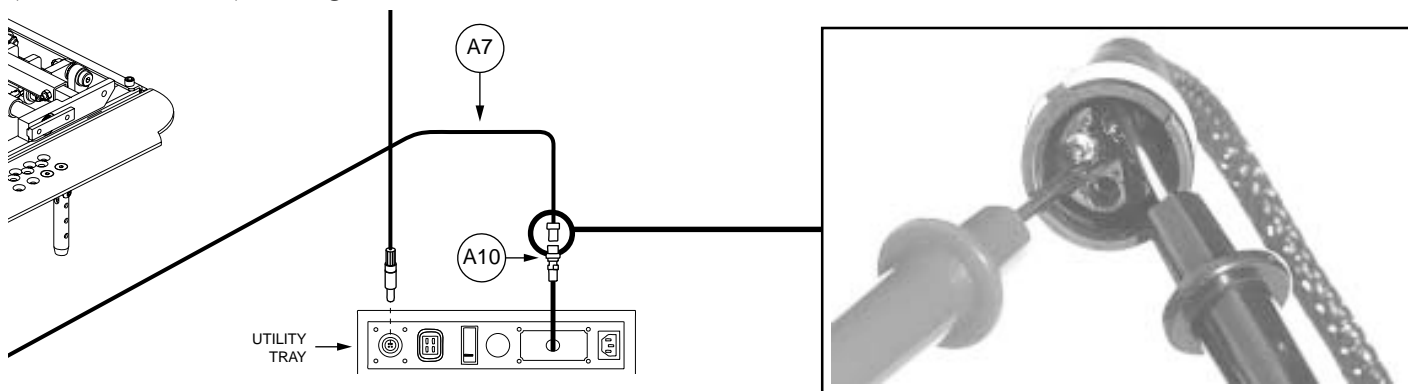


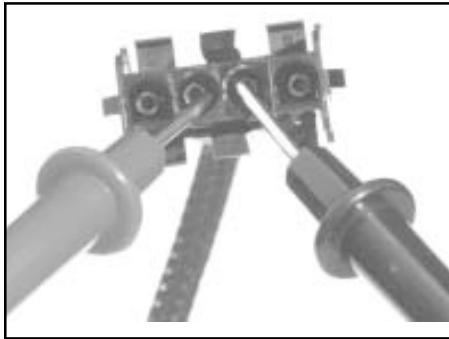
Figure 4.86. Harness Test

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



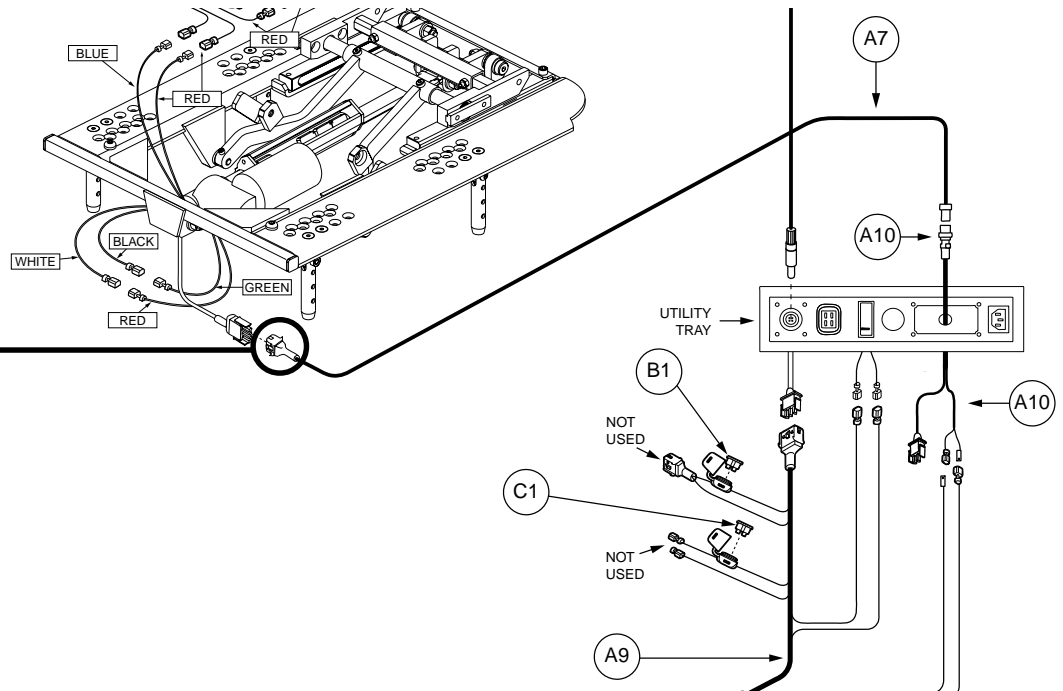
**If the meter reads continuity, reconnect the harness (A7) to the harness (A10). If the unit still will not drive, look for damage or corrosion on the pins. If the meter reads an "open," proceed to the next step.**

Locate the 4-pin connector that comes from the actuator and connects to the harness (A7). Disconnect the two connectors. On the A7 side of the connectors, measure resistance from one inside pin to the other inside pin. The reading should indicate continuity. See figure 4.87.



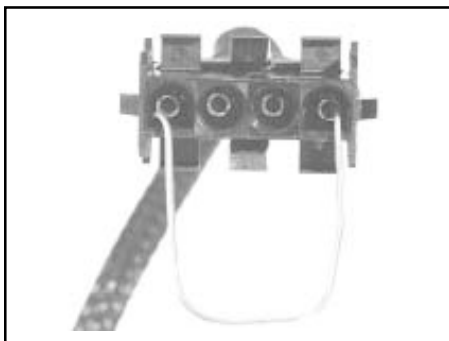
**Figure 4.87. Actuator Test**

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



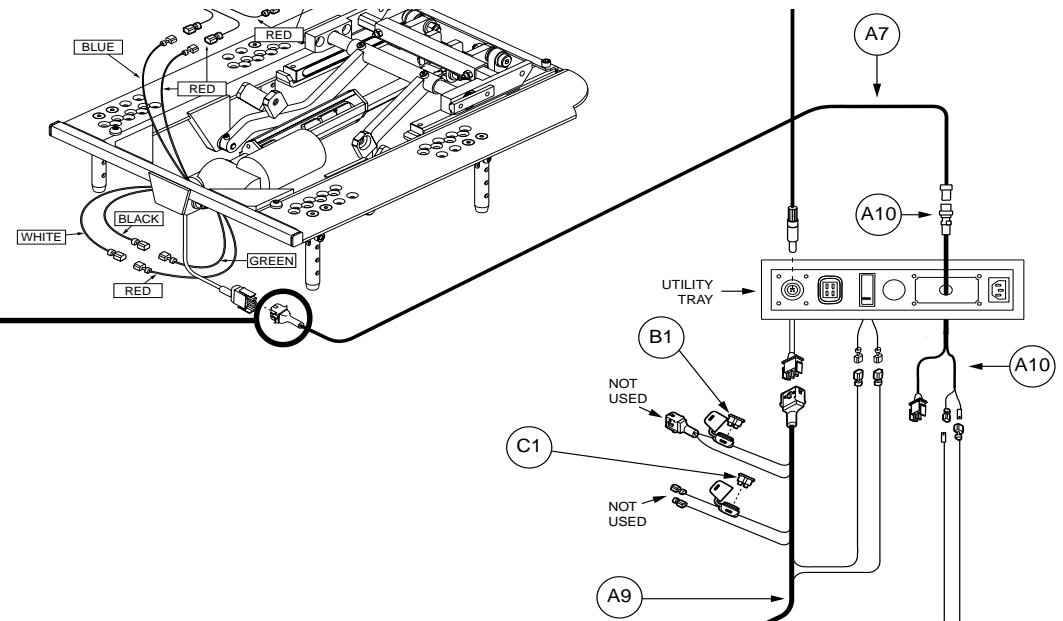
**If continuity is not present, replace the harness (A7). If continuity is present, proceed to the next step.**

On the A7 side of the flat 4-pin connector, jump the two outside pins together and try to drive the power chair. See figure 4.88.



**Figure 4.88. Outside Pins Test**

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



**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 (A7).**