

Situation 6

Will not drive, or drives one-half speed

Dynamic through toggle

“Will not drive or drives one-half speed, Dynamic through toggle” means that when the power chair is turned on and the toggle switch utilizing Dynamic electronics is activated, the power chair will not drive or only drives at one-half speed. Note any fault code by observing the joystick display. If a fault code is displayed, refer to Appendix B to interpret the code. Follow recommended troubleshooting procedures as indicated in the Dynamic Electronics Troubleshooting section. If there is no fault code, perform the following actions in order until the problem is corrected:

1. Locate the two limit switches under the seat of the power chair and verify that the wiring harnesses are correctly connected to the limit switches. See figure 4.66.
2. Disconnect the small AMP plug with yellow wires from the TAM. See figure 4.67. Using a multimeter set to measure resistance, insert the multimeter leads into the AMP plug. Operate the tilt until the seat is in the fully down position. Verify that less than one ohm is indicated on the multimeter.

The meter reads _____ ohms.



If the indication reads “open,” adjust the plate that the roller-limit switch is mounted on until the limit switch is fully depressed against the front strut. If the indication is 10K ohms, adjust the setscrew on the front strut until the limit switch with the resistor is fully depressed.

If the readings recorded on the multimeter are not within tolerance, fully tilt the seat back. Connect the multimeter across the limit switch with the roller with the red lead to the white wire, and the black lead to the yellow wire. See figure 4.68. Manually operate the limit switch, verifying that the multimeter indicates less than one ohm resistance when the limit switch is activated and “open” when it is not activated.



If the readings are not within tolerance, replace the limit switch.

3. Connect a multimeter set to measure resistance across the switch with the resistor, using the red lead to the white wire, and the black lead to the yellow wire. See figure 4.68. Manually operate the limit switch, verifying that the multimeter indicates a short when the switch is activated and 10K ohms when the switch is not activated.

The meter reads _____ ohms.



If the readings are not within tolerance, replace the limit switch, ensuring that the new limit switch contains a 10K-ohm resistor across the normal open contacts. Repeat the test.

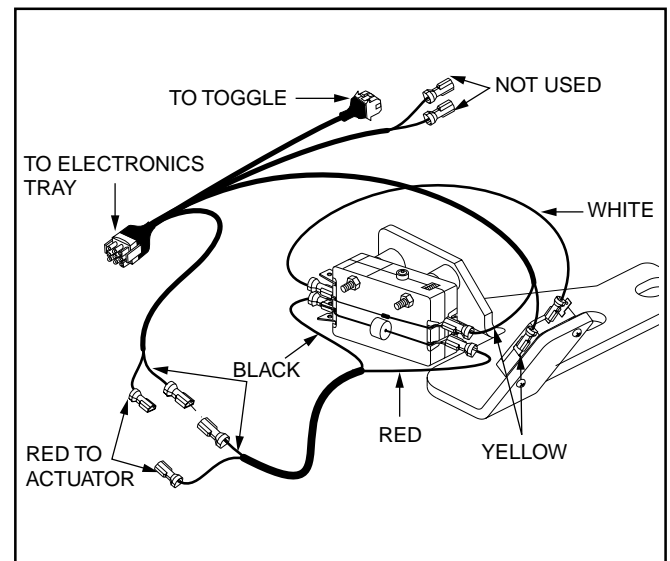


Figure 4.66. Toggle Harness Connections

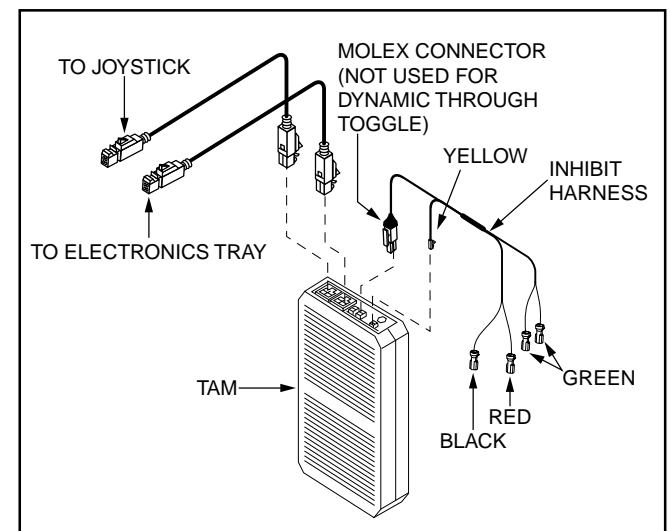


Figure 4.67. TAM with Harnesses

- Using a multimeter set to measure resistance, check the limit switch wire harness for continuity from the yellow wires on the limit switches to the small AMP connector disconnected from the TAM. See figures 4.66 and 4.67.



If an "open" in either wire is present, replace the wiring harness.

The meter reads _____ ohms.

- Troubleshoot the TAM using the Dynamic Troubleshooting section.
- Troubleshoot the joystick and power module using the Dynamic Electronics Troubleshooting section.

Notes:

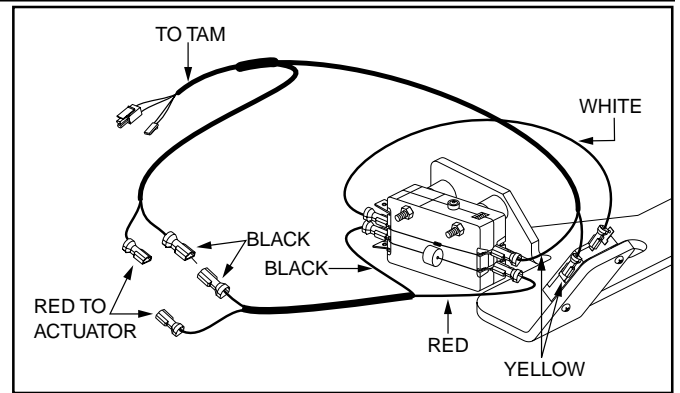


Figure 4.68. Dynamic Switch Harness Connections