

Situation 4

Drives one-half speed Dynamic through joystick

"Drives one-half speed, Dynamic through joystick" means that when the power chair is turned on and the drive function is selected on the joystick utilizing Dynamic electronics, the power chair drives in only 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 the recommended troubleshooting procedures as indicated in the Dynamic Diagnostic 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 4.59.

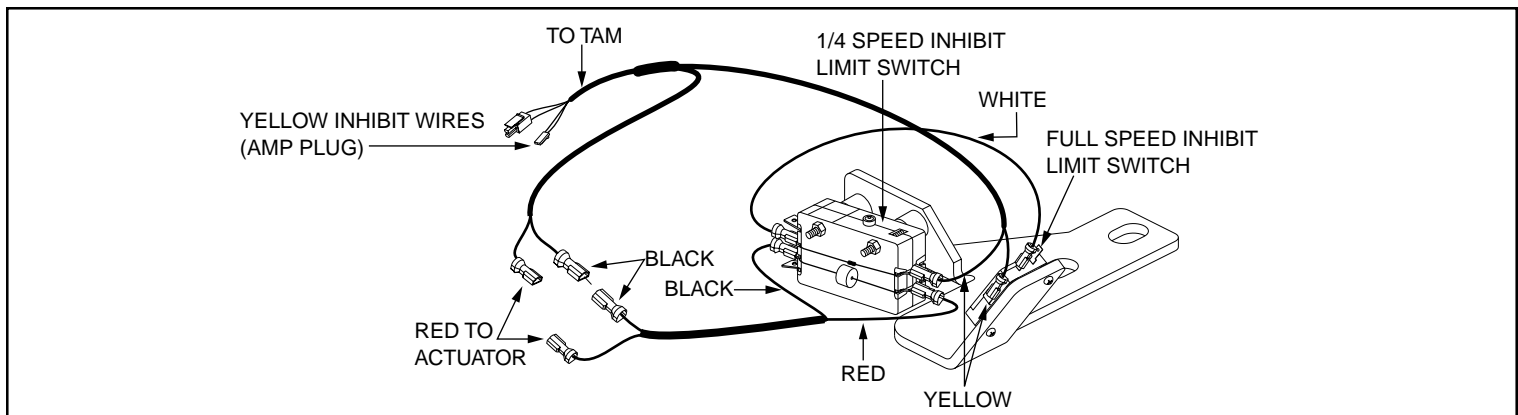


Figure 4.59. Limit Switches and Wiring Harnesses

2. Disconnect the small AMP plug with the yellow wires from the TAM module. The TAM module is located in the black box mounted to the back of the tilt system. Take a reading from the AMP connector with the meter set on resistance. Operate the tilt system until it is in the full down position, the reading should be less than one ohm of resistance.

The meter reads _____ ohms.



If you initially see an "open" for this reading, check to make sure the roller limit switch is fully depressed against the front strut. If it is not, adjust the mounting bracket and retake the readings.

The second reading reveals 10k ohms of resistance, make sure the set screw on the front strut is fully depressing the limit switch with the resistor on it. If you are not using an auto ranging meter, you may see an "open" for this reading. If you do see an "open," set the meter for a setting higher than 10k and retake the reading. See figure 4.60.

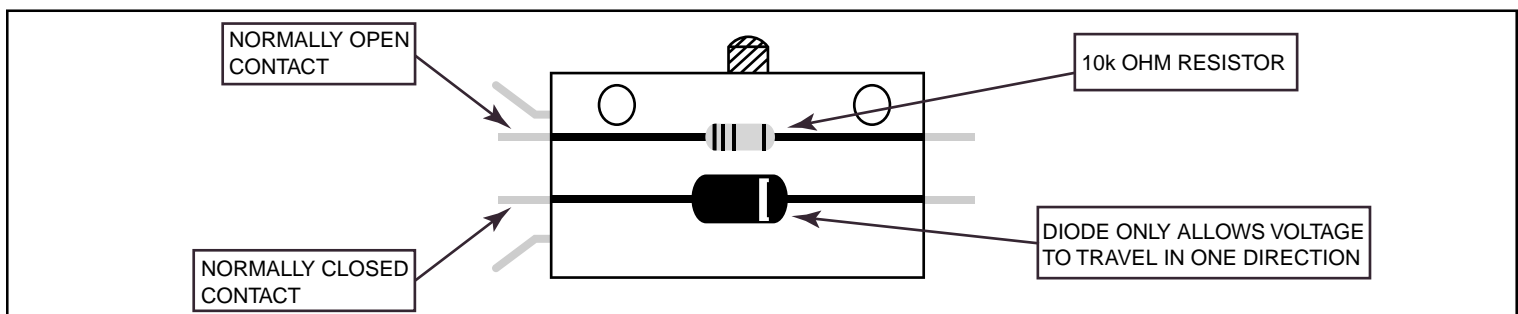


Figure 4.60. Limit Switch Layout

3. Check if the limit switch brackets are correctly positioned and both limit switches by the front strut are fully depressed. If the reading is still outside tolerance, fully tilt the system back and move to the limit switch with the resistor on it. Set the meter to measure resistance. You will need to be on a setting higher than 10k ohms for this switch. Place the red lead of the meter to the tab of the switch where the white wire is attached and the black lead of the meter to the tab where the yellow wire is attached. Depress the button on the top of the limit switch to activate it, the meter should indicate a short. See figure 4.61. With the switch not activated, the reading should be 10k ohms. See figure 4.62.

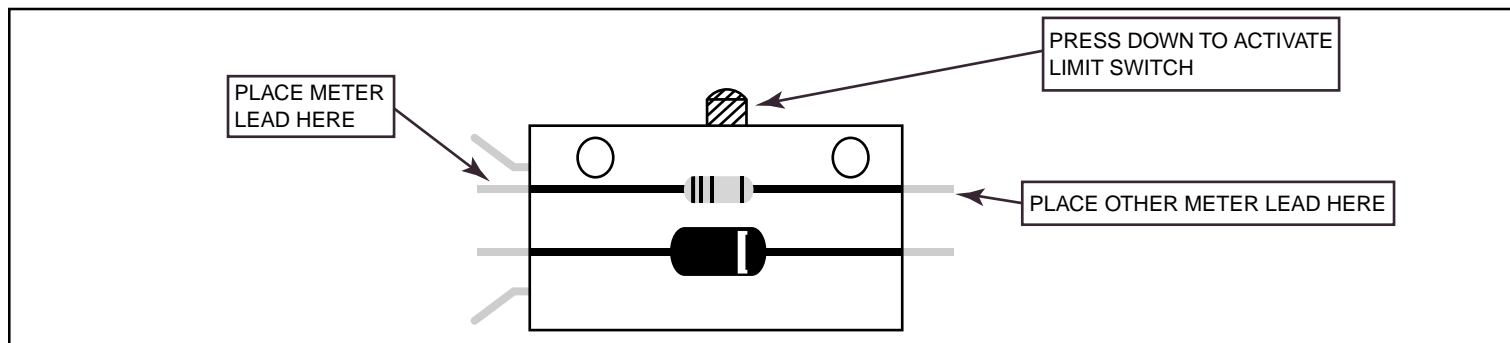


Figure 4.61. Limit Switch (activated)

The meter reads _____ ohms (with the switch activated)

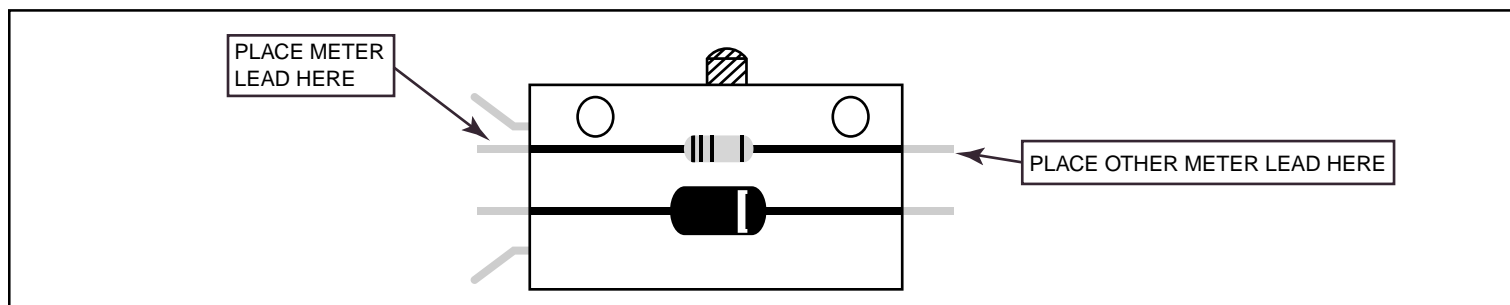


Figure 4.62. Limit Switch (not activated)

The meter reads _____ ohms (with the switch not activated)



If the readings are outside tolerance, replace the limit switch. Ensure that the new switch contains a 10k-ohm resistor across the normally open contacts.

4. If the readings are within tolerance, use the Dynamic HHP programmer to check if the power module speed settings are correct.
5. If the readings are within tolerance, troubleshoot the power chair by using the Dynamic Diagnostic section.

Notes: