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Coding Information

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Title: Power Windows Stop Randomly or are Inoperative, Power Door Locks are inoperative

Applies To: TerraStar, DuraStar, WorkStar, TransStar, ProStar, LoneStar

DESCRIPTION

This article provides initial diagnostics for power door lock/power window issues:

TRIAGE:

- Check to see if body controller is at or above kernel 240. If not, submit iApprove case file for BC programming. If the body controller is already at or above kernel 240 check and record DTCs in body controller, specifically ones related to door locks or windows or J1708 datalink

Customer Questionnaire:

- Can you explain when the vehicle experiences the problem? For instance, key on engine off, key on engine running or both?
- Did the problem just start or has it been getting worse over time?
- Has any work been performed recently such as body controller software update?
- Has the vehicle been in for the same problem before?

SYMPTOMS

- When the window stops moving the button may be pressed again and window operation will resume.
- Power locks may also be inoperative.
- Power windows may be inoperative.
- Door pod backlighting may be inoperative

DTCs

<u>Source Address 236</u>	<u>2236</u>	<u>Module Comm.</u>	<u>BC</u>	<u>FMI=9-ABNORMAL UPDATE RATE</u>	<u>Driver Door Pod Data Link Comm. Failure</u>
<u>Source Address 237</u>	<u>2237</u>	<u>Module Comm.</u>	<u>BC</u>	<u>FMI=9-ABNORMAL UPDATE RATE</u>	<u>Passenger Door Pod Data Link Comm. Failure</u>

POSSIBLE CAUSES

- Window Door tracks may need to be lubricated
- Body controller software update needed if kernel is prior to 240
- Wiring Issue

If the backlighting is working in the doorpod, follow the hardware troubleshooting below:

HARDWARE TROUBLESHOOTING CHECKLIST

1. Confirm there are no physical obstructions to the regulator movement
 - a. Nothing is blocking the lift arm
 - b. Nothing is binding the glass
 - c. Lift arm is secured to glass at the swivel pin
2. Confirm glass is located in the weather strip

3. Confirm weather strip is secured in glass run channel
4. Confirm glass run channel is properly secured to the beam
 - a. Glass run channel should NOT move freely away from beam
5. Confirm above belt glass run channels (glass opening seals) are in good working order
 - a. No rips
 - b. No tears
 - c. No holes
 - d. Embedded slip strip is present
6. Ensure motor is secure to module
 - a. All 3 nuts are present, tight & fully seated
7. Ensure the counter balance (clock) spring is engaged
 - a. Tang is engaged in the pivot pin slot
 - b. Spring hook is seated and tight against molded stabilizing mount
8. Visually inspect gear teeth for damage
9. Confirm all electrical connections are established and secure
10. Check connection between wire harness and window switch
 - a. Ensure window switch is functional
 - i. Check for current at the switch in both open & close position
 - ii. Check for voltage at the switch in both open & close positions
 - b. Check for corrosion on connectors
 - c. Check for loose connectors
 - d. Ensure connector is not damage
 - i. Is there evidence of excessive/over heating
 - ii. Is the connector broken/cracked
11. Confirm current is present at the motor
 - a. Check for corrosion on connectors
 - b. Check for loose connectors
 - c. Ensure connector is not damaged
 - i. Is there evidence of excessive/over heating
 - d. Is the connector broken/cracked
12. Confirm voltage is present at the motor
 - a. Check for corrosion on connectors
 - b. Check for loose connectors
 - c. Ensure connector is not damaged
 - i. Is there evidence of excessive/over heating
 - d. Is the connector broken/cracked

RESOLUTION

If you have a unit with the above condition DO NOT REPLACE THE BODY CONTROLLER OR THE DOOR PODS!!

If the VIN requires AFC 13904 or 13905 an iApprove case file is not necessary for BC programming approval. Perform the AFC and the BC will be updated to kernel 240 or higher. Both 13904 and 13905 have labor operations for the BC programming.

If the VIN does not fall into either of the above AFC's, and the BC is below kernel 240, you will need an iApprove case file to approve BC programming. Clearly state in the description section of the case file the customer complaint.

If Body controller software is at kernel 240 or higher and the problem is still present, further troubleshooting is necessary. The problem is most likely not a software issue if the door pod backlighting works.

Open a casefile for assistance. Do not unplug Door Pods prior to opening the case file.

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