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Availability: ISIS, FleetISIS, Body Builder, IsSIR **Revision:** 0
Major System: ELECTRICAL SYSTEM **Created:** 12/19/2019
Current Language: English **Last Modified:** 12/19/2019
Other Languages: NONE **Author:** Charles Schroeder
Viewed: 62

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Coding Information

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Title: Auxiliary Engine Speed Control Cannot Hold Engine Speed When Using Steering Wheel Switches

Applies To: LT, RH, HV, MV, LoneStar

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

12/19/2019 - Initial Article Release.

DESCRIPTION

When using the steering wheel switches to control Auxiliary Engine Speed Control (AESC), also referred to as Engine PTO, additional, increased electrical loads may cause AESC to disengage. Engine speed ramping ceases, and the engine will return to idle speed.

SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
No Faults or Warning Lights	

Customer Observations or Concerns:

- AESC kicks out, engine goes to idle

SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Diamond Logic Builder		EZ Tech Software	

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Not Applicable			

DIAGNOSTIC STEPS

Step	Action	Decision
#1	DIAGNOSTIC:	Yes: Continue to Step 2

<ol style="list-style-type: none"> 1. Ramp engine speed using the steering wheel switches 2. Increase electrical loads (headlights, wipers, blower) <p>Does the engine return to idle speed? OR Is the customer complaining about the symptom listed?</p>	<p>No: Follow normal troubleshooting for AESC</p>
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Step	Action	Decision
#2	<p>DIAGNOSTIC:</p> <ol style="list-style-type: none"> 1. Connect to the Body Control Module (BCM) using Diamond Logic Builder (DLB) and check the Data Version as shown in Figure 1 <p>Is the BCM Data Version below 322?</p>	<p>Yes: Follow Repair Steps below</p> <hr/> <p>No: Data Version is at 322 or higher. Follow normal troubleshooting for AESC</p>

Figure 1 - Check BCM Data Version

The screenshot shows the International Diamond Logic Builder interface. The 'Detected Modules' tab is active, displaying a list of modules with their addresses, configuration status, and kernel versions. The ESC module is highlighted in blue, showing an address of 33 and a kernel version of 715. To the right, a comparison table shows the 'Selected Module' (ESC) and 'Detected' (ESC) values for various parameters. The 'Data Version' row is highlighted in yellow, showing a value of 309 for both the selected and detected modules. A large number '1' in a circle is placed over the 'Data Version' row, with arrows pointing to the values in the comparison table.

Module	Address	In Configuration	Kernel	Description	Selected Module	Detected
Stalk Shifter		✓	55	Serial	951894	951894
Six Position Switch-Pack 2		✓	16	Hardware	504	504
Six Position Switch-Pack 1		✓	16	Configuration	2	2
Lighting Control Module		✓	16	Kernel	715	715
Instrument Cluster		✓	40405	Data Version	309	309
Front HVAC Control Module		✓	1803001	State		
Passenger Door Pod		✓	200			
Driver Door Pod		✓	200			
ESC	33	✓	715			

REPAIR STEP(S)

1. Follow [IK0800550 - Multi Module Programming Information for In-Cab Modules](#) and update the BCM to Data Version 322 (or higher)
2. Re-test for symptom

3. If symptom persists, follow normal troubleshooting for AESC

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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