



Countries: AUSTRALIA, BRAZIL, CANADA, COLOMBIA, UNITED STATES, PUERTO RICO, SOUTH AFRICA
Availability: ISIS, Bus ISIS, FleetISIS
Major System: TRANSMISSION
Current Language: English
Other Languages: [Français](#), [Español](#),
Viewed: 3562

Document ID: IK1300055
Revision: 4
Created: 12/17/2007
Last Modified: 4/29/2014
Author: Matthew Boyer

[Less Info](#)
☒ Hide Details

Coding Information

Copy Link 	Copy Relative Link 	Bookmark View My Bookmarks	Add to Favorites 	Print 	Provide Feedback 	Helpful 494	Not Helpful 625
----------------------	-------------------------------	--	-----------------------------	------------------	-----------------------------	---------------------------	-------------------------------

Title: Allison Gen 4 LCT (1000 and 2000 series) Transmission Upshifting too Fast

Applies To: All trucks with Allison Gen 4 LCT (1000 and 2000 series) Transmission

DESCRIPTION

Allison has found a problem in some of thier software calibrations.

SYMPTOMS

- Upshifting too fast
- Poor shift quality

POSSIBLE DIAGNOSTIC TROUBLE CODES

DTC	MODULE	DESCRIPTION
P2637	Transmission	Torque Management Feedback Signal - Shift Energy Management
P2641	Transmission	Torque Management Feedback Signal - Low Range Torque Protection
P0614	Transmission	Torque Control Data Mismatch - ECM / TCM

RESOLUTION

See Allison's Service Information Letter below for instructions.



26-1K2K-07
November, 2007
Product Code(s):
Page 1 of 1

SUBJECT: Allison DOC™ For PC 'Reset SEM Auto-Select' Action Request During P0614

MODELS AFFECTED: 1000 and 2000 Product Families

AFFECTED SERIAL NUMBERS: All

The purpose of this SIL is to communicate an issue that has been identified with the diagnostic response logic contained in MY08 software/calibrations (CINs that start with "48") that are configured to require SEM/LRTP. Additionally, this document presents technicians with a resolution to minimize exposure to this particular issue.

Issue: Allison DOC™ For PC—Service Tool appears unable to perform the Reset SEM Auto-Select action request and an error response of "Function Unavailable" occurs when troubleshooting code P0614 when a P2637 and/or P2641 code is also present.

Note: Diagnostic Trouble Codes P2637, Torque Management Feedback Signal—Shift Energy Management or P2641, Torque Management Feedback Signal—Low Range Torque Protection can be set before the initial Auto-Select process is completed (the first 5 drive cycles) triggering code P0614, Torque Control Data Mismatch—ECM/TCM to set.

Resolution: While the ignition is keyed on, but without the engine running clear P2637 and/or P2641 along with the P0614 diagnostic trouble code. At this point, perform the Reset SEM Auto-Select action request function with the Allison DOC™ For PC—Service Tool. Disregard the error response of "Function Unavailable," and then key off the ignition. When the vehicle is restarted codes will be cleared and SEM Auto-Select will be reset.

For MY09 TCM software (June 2008 release), this issue will be corrected.

Acronyms List:

CIN: Calibration Identification Number
DOC: Diagnostic Optimized Connection
LRTP: Low Range Torque Protection
MY: Model Year
PC: Personal Computer
SEM: Shift Energy Management
SIL: Service Information Letter
TCM: Transmission Control Module

OTHER RESOURCES

- Allison Tech Support 1-800-252-5283
- [Allison Website](#)

Hide Details

Feedback Information

Viewed: 3561
Helpful: 494
Not Helpful: 625

No Feedback Found