



July 21, 2017

SERVICE MEMORANDUM

NO. SM1702

SUBJECT: Cummins ECM Calibration Update To Reduce Occurrence Of Allison Fault Code P2637.

MODEL YEAR(S): 2018

MODEL(S) AFFECTED: Vision, All American, and TX4 (with Certain Cummins B6.7 Engines)

The purpose of Service Memorandum SM1702 is to make Blue Bird Dealers aware that Cummins has released a calibration update improvement to reduce occurrence of Allison transmission fault code P2637 "Torque Management Feedback Signal" with Cummins B6.7 diesel engines. Please reference Cummins Technical Service Bulletin "TSB170089" attached.

For any engines built before July 1, 2017, an ECM Code change is required to prevent occurrence of engine fault code 3555 "Engine Wait to Start Lamp - Abnormal Update Rate" after updating (ECM) calibration. Please reference Cummins Technical Service Bulletin "TSB170081" attached. Please advise customers to contact their local Cummins repair facility to have these updates completed.

If you have any questions, please contact your Blue Bird Field Service Engineer.

Attached are both Cummins Technical Service Bulletins.

Cummins Technical Service Bulletin TSB170089 (B6.7 CM2350 B121B)

Cummins Technical Service Bulletin TSB170081 (B6.7 CM2350 B121B)

BLUE BIRD BODY COMPANY

P.O. Box 937 – 402 Blue Bird Blvd – Fort Valley, Georgia – (478) 825-2021

Technical Service Bulletin Number
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TSB170089



Technical Service Bulletin

Subject

Allison® Transmission Control Module Setting Diagnostic Trouble Code P2637 (J1939 SPN 513 FMI 7)

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

Engine:

- B6.7 CM2350 B121B

Issue

Symptom:

- Allison® Transmission control module setting diagnostic trouble code P2637 (J1939 SPN 513 FMI 7)

Root Cause:

- Engine control module (ECM) calibration code issue

Verification

- Reference ECM calibration Revision History on QuickServe™ Online (QSOL).
- Verify existing ECM calibration code revision is from 1 January 2017 to 6 July 2017.

Resolution

- If Fault Code 3555 is active or inactive with more than one count logged in the last 25 engine hours, reference TSB, Active Fault Code 3555 After Engine Control Module (ECM) Calibration, TSB170081.
- If existing ECM calibration code revision is from 1 January 2017 to 6 July 2017, calibrate ECM to latest revision.
 - See B6.7 CM2350 B121B Service Manual, Bulletin 5411223. [Refer to Procedure 019-032](#) in Section 19.

Document History

Date	Details
2017-7-17	Module Created

Last Modified: 19-Jul-2017

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Technical Service Bulletin Number
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TSB170081



Technical Service Bulletin

Subject

Active Fault Code 3555 After Engine Control Module (ECM) Calibration

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

Engine:

- B6.7 CM2350 B121B

Issue

Symptom:

- Active Fault Code 3555 after downloading engine control module (ECM) calibration codes released June 2017 or later

Root Cause:

- ECM calibration code compatibility issues with OEM dash configuration

Verification

- Verify affected base ECM calibration code is found in Table 1 below.

Table 1, ECM Calibration Codes		
Affected Base ECM Calibration Code	ECM Calibration Code Revision Level	New Base ECM Calibration Code
HC80001	17	HC80178
HC80002	17	HC80177
HC80003	17	HC80220
HC80004	17	HC80219
HC80009	17	HC80186
HC80010	17	HC80185
HC80011	16	HC80146
HC80012	16	HC80145
HC80013	16	HC80152
HC80014	16	HC80151
HC80015	16	HC80158
HC80016	16	HC80157
HC80017	16	HC80164
HC80018	16	HC80163
HC80019	16	HC80168
HC80020	16	HC80167
HC80021	16	HC80174
HC80022	16	HC80173
HC80023	15	HC80194
HC80024	15	HC80193
HC80025	15	HC80204
HC80026	15	HC80203
HC80027	15	HC80210
HC80028	15	HC80209
HC80029	16	HC80224
HC80030	16	HC80223
HC80031	16	HC80228
HC80032	16	HC80227
HC80033	16	HC80242
HC80034	16	HC80241

Table 1, ECM Calibration Codes		
Affected Base ECM Calibration Code	ECM Calibration Code Revision Level	New Base ECM Calibration Code
HC80035	16	HC80248
HC80036	16	HC80247
HC80037	14	HC80147
HC80038	14	HC80149
HC80039	14	HC80153
HC80040	14	HC80155
HC80041	14	HC80159
HC80042	14	HC80161
HC80043	14	HC80165
HC80044	14	HC80166
HC80045	14	HC80169
HC80046	14	HC80171
HC80047	14	HC80175
HC80048	14	HC80176
HC80049	14	HC80180
HC80050	14	HC80179
HC80051	14	HC80182
HC80052	14	HC80183
HC80053	14	HC80187
HC80054	14	HC80188
HC80055	14	HC80195
HC80056	14	HC80197
HC80057	13	HC80200
HC80058	14	HC80201
HC80059	13	HC80199
HC80060	14	HC80202
HC80061	13	HC80206
HC80062	14	HC80205
HC80063	14	HC80207
HC80064	13	HC80208

Table 1, ECM Calibration Codes		
Affected Base ECM Calibration Code	ECM Calibration Code Revision Level	New Base ECM Calibration Code
HC80065	13	HC80212
HC80066	14	HC80211
HC80067	14	HC80213
HC80068	13	HC80214
HC80069	14	HC80216
HC80070	15	HC80217
HC80071	14	HC80215
HC80072	15	HC80218
HC80073	15	HC80221
HC80074	15	HC80222
HC80075	14	HC80225
HC80076	14	HC80226
HC80077	14	HC80229
HC80078	14	HC80230
HC80079	13	HC80232
HC80080	14	HC80233
HC80081	13	HC80231
HC80082	14	HC80234
HC80083	14	HC80235
HC80084	14	HC80236
HC80085	14	HC80237
HC80086	14	HC80238
HC80093	14	HC80243
HC80094	14	HC80245
HC80095	14	HC80249
HC80096	14	HC80250
HC80097	13	HC80148
HC80098	13	HC80150
HC80099	13	HC80154
HC80100	13	HC80156

Table 1, ECM Calibration Codes		
Affected Base ECM Calibration Code	ECM Calibration Code Revision Level	New Base ECM Calibration Code
HC80101	13	HC80160
HC80102	13	HC80162
HC80103	13	HC80170
HC80104	13	HC80172
HC80105	13	HC80181
HC80106	13	HC80184
HC80107	13	HC80244
HC80108	13	HC80246
HC80109	11	HC80189
HC80110	12	HC80190
HC80111	11	HC80191
HC80112	12	HC80192
HC80113	12	HC80239
HC80114	12	HC80240
HC80143	4	HC80196
HC80144	4	HC80198

Resolution

- Identify new base ECM calibration code using the cross-reference in Table 1.
- Update ECM calibration to latest revision of new base ECM calibration code in Table 1.
 - Fleet count, Part Number 3886396, **must** be used to update to new ECM calibration code.
 - Calibrate ECM calibration using latest INCAL™ DVD. See B6.7 CM2350 B121B Service Manual, Bulletin 5411223. [Refer to Procedure 019-032](#) in Section 19.
 - Reference ECM Calibration Revision History on QuickServe™ Online for more information.
- Order, fill out, and install authorized change label, Part Number 5297400.
 - Fill out authorized change labor sticker with new ECM base code, distributor or dealer code, and date. Campaign number section **must** contain the number of this TSB, TSB170081.
 - Place completed authorized change label near engine dataplate.

Document History

Date	Details

Date	Details
2017-6-20	Module Created

Last Modified: 23-Jun-2017

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