

Technical Service Bulletin Number
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TSB170033



Technical Service Bulletin

Subject

Engine Runs Rough During Aftertreatment SCR System Test

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

- B6.7 CM2350 B121B
- ISB6.7 CM2350 B101
- ISL9 CM2350 L101
- L9 CM2350 L116B
- L9 CM2350 L123B

Issue

Symptom:

- Engine runs rough during Aftertreatment SCR System Test in INSITE™ electronic service tool but runs normally when in aftertreatment diesel particulate filter (DPF) regeneration or other operating mode.
- Aftertreatment SCR System Test can also abort with one of the following messages.
 - The test has stopped because the DPF Outlet Temperature is out of the desired range. Correct the issue, key OFF, allow the ECM to completely power down, key ON, and restart the test.

- The test has stopped because the Engine Speed is out of the desired range. Correct the issue, key OFF, allow the ECM to completely power down, key ON, and restart the test.

Root Cause:

- Vehicle parking brake is **not** engaged.
- Test requires parking brake to be engaged when enabled. On engines trimmed to allow stationary DPF regeneration without parking brake engagement, test loses ability to abort with parking brake **not** engaged message.

Verification

Verify engine runs normally while a DPF stationary regeneration is active but runs rough while Aftertreatment SCR System Test is active.

Resolution

- Engage parking brake, if equipped. If vehicle is **not** equipped with parking brake, verify parking brake switch and multiplexed parking brake trims are disabled in Features and Parameters section of INSITE™ electronic service tool.
- A software revision is being released that will allow Aftertreatment SCR System Test to **always** abort with parking brake **not** engaged message regardless of Aftertreatment Diesel Particulate Filter Regeneration with Parking Brake trim setting.
- ECM calibration code release dates that include software fix are listed in Tables 1, 2, 3, and 4 below.

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
DT90179	DT90001	DT90088
DT90180	DT90002	DT90089
DT90181	DT90003	DT90090
DT90182	DT90004	DT90091
DT90183	DT90005	DT90092
DT90184	DT90006	DT90093
DT90185	DT90007	DT90094
DT90186	DT90008	DT90095
DT90187	DT90009	DT90096
DT90188	DT90010	DT90097
DT90189	DT90011	DT90098
DT90190	DT90012	DT90099
DT90191	DT90013	DT90100

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
DT90192	DT90014	DT90101
DT90193	DT90015	DT90102
DT90194	DT90016	DT90103
DT90195	DT90017	DT90104
DT90196	DT90018	DT90105
DT90197	DT90019	DT90106
DT90198	DT90020	DT90107
DT90199	DT90021	DT90108
DT90200	DT90022	DT90109
DT90201	DT90023	DT90110
DT90202	DT90024	DT90111
DT90203	DT90025	DT90112
DT90204	DT90026	DT90113
DT90205	DT90027	DT90114
DT90206	DT90028	DT90115
DT90207	DT90029	DT90116
DT90208	DT90030	DT90117
DT90209	DT90031	DT90118
DT90210	DT90032	DT90119
DT90211	DT90033	DT90120
DT90212	DT90034	DT90121
DT90213	DT90035	DT90122
DT90214	DT90036	DT90123
DT90215	DT90037	DT90124
DT90216	DT90038	DT90125
DT90217	DT90039	DT90126
DT90218	DT90040	DT90127
DT90219	DT90041	DT90128
DT90220	DT90042	DT90129
DT90221	DT90043	DT90130
DT90222	DT90044	DT90131

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
DT90223	DT90045	DT90132
DT90224	DT90046	DT90133
DT90225	DT90047	DT90134
DT90226	DT90048	DT90135
DT90227	DT90049	DT90136
DT90228	DT90050	DT90137
DT90229	DT90051	DT90138
DT90230	DT90052	DT90139
DT90231	DT90053	DT90140
DT90232	DT90054	DT90141
DT90233	DT90055	DT90142
DT90234	DT90056	DT90143
DT90235	DT90057	DT90144
DT90236	DT90058	DT90145
DT90237	DT90059	DT90146
DT90238	DT90060	DT90147
DT90239	DT90061	DT90148
DT90240	DT90062	DT90149
DT90260	DT90063	DT90150
DT90261	DT90064	DT90151
DT90262	DT90065	DT90152
DT90263	DT90066	DT90153
DT90264	DT90075	DT90154
DT90265	DT90076	DT90155
DT90266	DT90077	DT90156
DT90267	DT90078	DT90157
DT90268	DT90079	DT90158
DT90269	DT90080	DT90159
DT90270	DT90081	DT90160
DT90271	DT90161	DT90241
DT90272	DT90162	DT90242

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
DT90273	DT90163	DT90243
DT90274	DT90164	DT90244
DT90275	DT90165	DT90245
DT90276	DT90166	DT90246
DT90277	DT90167	DT90247
DT90278	DT90168	DT90248
DT90279	DT90169	DT90249
DT90280	DT90170	DT90250
DT90281	DT90171	DT90251
DT90282	DT90172	DT90252
DT90283	DT90173	DT90253
DT90284	DT90174	DT90254
DT90285	DT90175	DT90255
DT90286	DT90176	DT90256
DT90287	DT90177	DT90257
DT90288	DT90178	DT90258
DT90289	-	DT90259
DT90290	-	DT90352
DT90291	-	DT90353
DT90292	-	DT90354
DT90293	-	DT90355
DT90294	-	DT90356
DT90295	-	DT90357
DT90296	-	DT90358
DT90297	-	DT90359
DT90298	-	DT90360
DT90299	-	DT90361
DT90300	-	DT90362
DT90301	-	DT90363
DT90302	-	DT90364
DT90303	-	DT90365

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
DT90304	-	DT90366
DT90305	-	DT90367
DT90306	-	DT90368
DT90307	-	DT90369
DT90308	-	DT90370
DT90309	-	DT90371
DT90310	-	DT90372
DT90311	-	DT90373
DT90312	-	DT90374
DT90313	-	DT90375
DT90314	-	DT90376
DT90315	-	DT90377
DT90316	-	DT90378
DT90317	-	DT90379
DT90318	-	DT90380
DT90319	-	DT90381
DT90320	-	DT90382
DT90321	-	DT90383
DT90322	-	DT90384
DT90323	-	DT90385
DT90324	-	DT90386
DT90325	-	DT90387
DT90326	-	DT90388
DT90327	-	DT90389
DT90328	-	DT90390
DT90329	-	DT90391
DT90330	-	DT90392
DT90331	-	DT90393
DT90332	-	DT90394
DT90333	-	DT90395
DT90334	-	DT90396

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
DT90335	-	DT90397
DT90336	-	DT90398
DT90337	-	DT90399
DT90338	-	DT90400
DT90339	-	DT90401
DT90340	-	DT90402
DT90341	-	DT90403
DT90342	-	DT90404
DT90343	-	DT90405
DT90344	-	DT90406
DT90345	-	DT90407
DT90346	-	DT90408
DT90347	-	DT90409
DT90348	-	DT90410
DT90349	-	DT90411
DT90350	-	DT90412
DT90351	-	DT90413
-	-	DT90414
-	-	DT90415
-	-	DT90416
-	-	DT90417
-	-	DT90418
-	-	DT90419
-	-	DT90420
-	-	DT90421
-	-	DT90422
-	-	DT90423
-	-	DT90424
-	-	DT90425
-	-	DT90426
-	-	DT90427

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
-	-	DT90428
-	-	DT90429
-	-	DT90430
-	-	DT90431
-	-	DT90432
-	-	DT90433
-	-	DT90434
-	-	DT90435
-	--	DT90436
-	-	DT90437
-	-	DT90438
-	-	DT90439
-	-	DT90440
-	-	DT90441
-	-	DT90442
-	-	DT90443
-	-	DT90444
-	-	DT90445
-	-	DT90446
-	-	DT90447
-	-	DT90448
-	-	DT90449
-	-	DT90450
-	-	DT90451
-	-	DT90452
-	-	DT90453
-	-	DT90454
-	-	DT90455
-	-	DT90456
-	-	DT90457
-	-	DT90458

Table 1, ISB6.7 CM2350 B101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
-	-	DT90459
-	-	DT90460
-	-	DT90461
-	-	DT90462
-	-	DT90463
-	-	DT90464
-	-	DT90465
-	-	DT90466
-	-	DT90467
-	-	DT90468
-	-	DT90469
-	-	DT90470
-	-	DT90471
-	-	DT90472
-	-	DT90473

Table 2, B6.7 CM2350 B121B ECM Calibration Code Fix Release by Month
April 2017
All ECM Codes

Table 3, ISL9 CM2350 L101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
EB90101	EB90001	EB90053
EB90102	EB90002	EB90054
EB90103	EB90003	EB90055
EB90104	EB90005	EB90056
EB90105	EB90006	EB90057
EB90106	EB90007	EB90058
EB90107	EB90008	EB90059
EB90108	EB90009	EB90060
EB90109	EB90010	EB90061
EB90110	EB90012	EB90062

Table 3, ISL9 CM2350 L101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
EB90111	EB90013	EB90063
EB90112	EB90014	EB90064
EB90113	EB90015	EB90065
EB90114	EB90016	EB90066
EB90115	EB90017	EB90067
EB90116	EB90018	EB90068
EB90117	EB90019	EB90069
EB90118	EB90020	EB90070
EB90119	EB90021	EB90071
EB90120	EB90022	EB90072
EB90121	EB90023	EB90073
EB90122	EB90024	EB90074
EB90123	EB90025	EB90075
EB90124	EB90026	EB90076
EB90125	EB90027	EB90077
EB90126	EB90028	EB90078
EB90127	EB90029	EB90079
EB90128	EB90030	EB90080
EB90129	EB90031	EB90081
EB90130	EB90032	EB90082
EB90131	EB90033	EB90083
EB90132	EB90034	EB90084
EB90133	EB90035	EB90085
EB90134	EB90036	EB90086
EB90135	EB90037	EB90087
EB90136	EB90038	EB90088
EB90137	EB90039	EB90089
EB90138	EB90041	EB90090
EB90139	EB90042	EB90091
EB90140	EB90043	EB90092
EB90141	EB90044	EB90093

Table 3, ISL9 CM2350 L101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
EB90142	EB90045	EB90094
EB90143	EB90046	EB90095
EB90144	EB90047	EB90096
EB90145	EB90048	EB90097
EB90146	EB90049	EB90098
EB90147	EB90050	EB90099
EB90148	EB90051	EB90100
EB90154	EB90052	EB90151
EB90155	EB90149	EB90152
EB90156	EB90150	EB90153
EB90157	-	EB90192
EB90158	-	EB90193
EB90159	-	EB90194
EB90160	-	EB90195
EB90161	-	EB90196
EB90162	-	EB90197
EB90163	-	EB90198
EB90164	-	EB90199
EB90165	-	EB90200
EB90166	-	EB90201
EB90167	-	EB90202
EB90168	-	EB90203
EB90169	-	EB90204
EB90170	-	EB90205
EB90171	-	EB90206
EB90172	-	EB90207
EB90173	-	EB90208
EB90174	-	EB90209
EB90175	-	EB90210
EB90176	-	EB90211
EB90177	-	EB90212

Table 3, ISL9 CM2350 L101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
EB90178	-	EB90213
EB90179	-	EB90214
EB90180	-	EB90215
EB90181	-	EB90216
EB90182	-	EB90217
EB90183	-	EB90218
EB90184	-	EB90219
EB90185	-	EB90220
EB90186	-	EB90221
EB90187	-	EB90222
EB90188	-	EB90223
EB90189	-	EB90224
EB90190	-	EB90225
EB90191	-	EB90226
EB90244	-	EB90227
EB90245	-	EB90228
EB90246	-	EB90229
EB90247	-	EB90230
EB90248	-	EB90231
EB90249	-	EB90232
EB90250	-	EB90233
EB90251	-	EB90234
EB90252	-	EB90235
EB90253	-	EB90236
EB90254	-	EB90237
EB90255	-	EB90238
EB90256	-	EB90239
EB90257	-	EB90240
EB90258	-	EB90241
EB90259	-	EB90242
EB90266	-	EB90243

Table 3, ISL9 CM2350 L101 ECM Calibration Code Fix Release by Month		
October 2016	January 2017	June 2017
EB90267	-	EB90260
-	-	EB90261
-	-	EB90262
-	-	EB90263
-	-	EB90264
-	-	EB90265

Table 4, L9 CM2350 L116B and L9 CM2350 L123B ECM Calibration Code Fix Release by Month
April 2017
All ECM Calibration Codes

Document History

Date	Details
2017-3-17	Module Created

Last Modified: 28-Mar-2017

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