

SIL 16-1K2K-17
June, 2017
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SUBJECT: Freightliner Custom Chassis S2G PTO Dropout

MODELS AFFECTED: Freightliner Custom Chassis S2G Equipped Vehicles with a Power Solutions Inc. (PSI) 8.0L LPG Engine and an Allison 2000 Series Product Family Transmission

Introduction:

Freightliner Custom Chassis S2G units with a PSI 8.0L LPG engine and an Allison 2000 Series Product Family transmission may be susceptible to issues with the Power Takeoff (PTO). In some vocations, PTO operation may produce a high amount of vibration causing the Transmission Control Module (TCM) to erroneously interpret the vibration as road speed. The vehicle may then experience a sudden engine speed drop from the preprogrammed set engine speed 1 or 2 back to idle without being commanded. If the PTO is engaged when the engine speed drop occurs, the PTO may suddenly disengage.

In the event that this issue is experienced, it may be necessary to update the TCM software. BCD152 and later software versions incorporate a “filter” to reduce the output speed circuit noise.

Service Channel Procedure:

If this issue occurs, determine if the VIN is included in [Table 1](#).

Table 1. Applicable VINs

4UZAEDE33ECFK9639	4UZAEDE37FCFX7338	4UZAEDE31GCHC7814	4UZAEDE33GCHK0450
4UZAEDE3XECFK9640	4UZAEDE38FCFY0121	4UZAEDE37GCHC8076	4UZAEDE35GCHK0451
4UZAEDE31ECFK9641	4UZAEDE3XFCFZ0262	4UZAEDE37GCHC8515	4UZAEDE37GCHK0452
4UZAEDE33ECFK9642	4UZAEDE31FCFZ0263	4UZAEDE39GCHC8516	4UZAEDE39GCHK0453
4UZAEDE35ECFK9643	4UZAEDE33FCFZ0264	4UZAEDE30GCHC8517	4UZAEDE30GCHK0454
4UZAEDE37ECFK9644	4UZAEDE36FCGA1785	4UZAEDE32GCHC8518	4UZAEDE32GCHK0455
4UZAEDE39ECFK9645	4UZAEDE39FCGD1427	4UZAEDE30GCHC9134	4UZAEDE34GCHK0456
4UZAEDE30ECFK9646	4UZAEDE35FCGG7227	4UZAEDE32GCHC9135	4UZAEDE36GCHK0457
4UZAEDE32ECFK9647	4UZAEDE37FCGG7228	4UZAEDE31GCHC9143	4UZAEDE38GCHK0458
4UZAEDE34ECFK9648	4UZAEDE32FCGG8884	4UZAEDE32GCHD0611	4UZAEDE3XGCHK0459
4UZAEDE36ECFK9649	4UZAEDE38FCGH0249	4UZAEDE3XGCHD1005	4UZAEDE36GCHK0460

WBD / SL8030EN

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Please Note: Allison Transmission Service Information Letters are intended for use by professional, trained technicians, not for the “do-it-yourselfer.” They are written to inform those technicians of conditions that may occur on some transmission models (or serial numbers ranges) or to provide information that could assist in the proper servicing of a specific Allison transmission. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, do not assume that the Service Information Letter applies to your transmission, or that your transmission has the condition described. Product evolution and information updates are inevitable. Please see your authorized Allison Transmission service dealer or distributor to understand if your particular transmission may benefit from the information contained within the Service Information Letter.

Table 1. Applicable VINs (cont'd)

4UZAED32ECFK9650	4UZAED32FCGH8010	4UZAED31GCHD1006	4UZAED38GCHK0461
4UZAED34ECFK9651	4UZAED37FCGH8102	4UZAED32GCHD2066	4UZAED3XGCHK0462
4UZAED36ECFK9652	4UZAED34FCGH8865	4UZAED30GCHD5533	4UZAED31GCHK0463
4UZAED38ECFK9653	4UZAED35FCGJ5892	4UZAED34GCHD6720	4UZAED33GCHK0464
4UZAED3XECFK9654	4UZAED36FCGK0633	4UZAED36GCHD6721	4UZAED35GCHK0465
4UZAED31ECFK9655	4UZAED37FCGK6764	4UZAED35GCHD6998	4UZAED3XGCHK2888
4UZAED33ECFK9656	4UZAED3XFCGK8606	4UZAED39GCHE0987	4UZAED39GCHK3269
4UZAED35ECFK9657	4UZAED3XFCGK8668	4UZAED38GCHE2231	4UZAED39GCHK4034
4UZAED37ECFK9658	4UZAED31FCGK8669	4UZAED3XGCHE2795	4UZAED32GCHK4036
4UZAED39ECFK9659	4UZAED32FCGK9376	4UZAED35GCHE2879	4UZAED30GCHK6433
4UZAED37ECFK9661	4UZAED37FCGL0961	4UZAED37GCHE3466	4UZAED38GCHK6891
4UZAED37FCFK9662	4UZAED37FCGL4735	4UZAED37GCHE3709	4UZAED33GCHK6992
4UZAEME34ECFM5185	4UZAED38FCGL9653	4UZAED31GCHE5195	4UZAED3XGCHK7377
4UZAED35FCFM9487	4UZAED31FCGM0076	4UZAED33GCHE5196	4UZAED37GCHK8308
4UZAED37FCFM9488	4UZAED33FCGM0077	4UZAED38GCHE5906	4UZAED37GCHK8941
4UZAED39FCFM9489	4UZAED32FCGM6310	4UZAED36GCHE6388	4UZAED38GCHK9094
4UZAED35FCFM9490	4UZAED33FCGM8096	4UZAED38GCHE6389	4UZAED33GCHK9097
4UZAED37FCFN6313	4UZAED3XFCGN0315	4UZAED30GCHE6399	4UZAED3XGCHK9100
4UZAED34FCFN7581	4UZAED32FCGN1524	4UZAED33GCHE6400	4UZAED36GCHK9529
4UZAED36FCFN7582	4UZAED32FCGN2981	4UZAED35GCHE6401	4UZAED36GCHL1457
4UZAED38FCFN7583	4UZAED32FCGN3600	4UZAED3XGCHE6569	4UZAED34GCHL1554
4UZAED3XFCFN7584	4UZAED36FCGN4734	4UZAED36GCHE6570	4UZAED3XGCHL8167
4UZAED31FCFN7585	4UZAED30FCGP0931	4UZAED36GCHE9582	4UZAED37GCHL9485
4UZAED33FCFN7586	4UZAED32FCGP0932	4UZAED38GCHE9583	4UZAED30GCHM0350
4UZAED35FCFN7587	4UZAED34FCGP0933	4UZAED3XGCHE9584	4UZAED30GCHM0378
4UZAED37FCFN7588	4UZAED36FCGP0934	4UZAED34GCHF0570	4UZAED35GCHM2031
4UZAED39FCFN7589	4UZAED33FCGP2706	4UZAED39GCHF5537	4UZAED37GCHM2032
4UZAED35FCFN7590	4UZAED34FCGP2858	4UZAED37GCHF6167	4UZAED39GCHM2033
4UZAED37FCFN7591	4UZAED33FCGP9512	4UZAED39GCHF6168	4UZAED33GCHM2349
4UZAED39FCFN7592	4UZAED35FCGP9513	4UZAED39GCHF7076	4UZAED3XGCHM2350
4UZAED30FCFN7593	4UZAED34FCGR2124	4UZAED33GCHF8174	4UZAED36GCHM2457
4UZAED32FCFN7594	4UZAED36FCGR2125	4UZAED3XGCHF8348	4UZAED35GCHM2577
4UZAED34FCFN7595	4UZAED30FCGR5411	4UZAED31GCHF8349	4UZAED36GCHM3074
4UZAED36FCFN9414	4UZAED32FCGR5412	4UZAED38GCHF8350	4UZAED3XGCHM5040
4UZAED38FCFN9415	4UZAED34FCGR5413	4UZAED3XGCHF8351	4UZAED35GCHM5446
4UZAED3XFCFN9416	4UZAED36FCGR5414	4UZAED31GCHF8352	4UZAED30GCHM6228

Table 1. Applicable VINs (cont'd)

4UZAEDE34FCFN9430	4UZAEDE38FCGR5415	4UZAEDE33GCHF8353	4UZAEDE38GCHM6364
4UZAEDE36FCFN9431	4UZAEDE3XFCGR5416	4UZAEDE35GCHF8354	4UZAEDE3XGCHM6379
4UZAEDE39FCFN9603	4UZAEDE31FCGR5417	4UZAEDE37GCHF8355	4UZAEDE32GCHM6831
4UZAEDE32FCFP3794	4UZAEDE33FCGR5418	4UZAEDE34GCHF9141	4UZAEDE36GCHM7237
4UZAEDE31FCFP3852	4UZAEDE35FCGR5419	4UZAEDE31GCHF9159	4UZAEME37GCHM8171
4UZAEDE33FCFP3853	4UZAEDE31FCGR5420	4UZAEDE36GCHG0162	4UZAEDE33GCHM8300
4UZAEDE35FCFP3854	4UZAEDE36FCGR6871	4UZAEDE38GCHG0163	4UZAEDE39GCHM8480
4UZAEDE37FCFP3855	4UZAEDE36FCGR7356	4UZAEDE39GCHG1533	4UZAEDE31GCHM8795
4UZAEDE39FCFP3856	4UZAEDE38FCGR7357	4UZAEDE30GCHG1534	4UZAEDE32GCHM8840
4UZAEDE30FCFP3857	4UZAEDE3XFCGR7358	4UZAEDE32GCHG1535	4UZAEDE38GCHM8891
4UZAEDE32FCFP3858	4UZAEDE31FCGR7359	4UZAEDE33GCHG1852	4UZAEDE3XGCHM8892
4UZAEDE34FCFP3859	4UZAEDE38FCGR7360	4UZAEDE34GCHG3027	4UZAEDE38GCHM9362
4UZAEDE30FCFP3860	4UZAEDE3XFCGR7361	4UZAEDE36GCHG3028	4UZAEDE3XGCHM9363
4UZAEDE38FCFP8384	4UZAEDE31FCGS5450	4UZAEDE38GCHG3029	4UZAEDE30GCHM9579
4UZAEDE37FCFP9283	4UZAEDE37FCGS6814	4UZAEDE34GCHG3030	4UZAEDE39GCHN0102
4UZAEDE32FCFP9319	4UZAEDE32FCGS8339	4UZAEDE36GCHG3031	4UZAEDE30GCHN0103
4UZAEDE37FCFR1689	4UZAEDE38FCGS9561	4UZAEDE38GCHG3032	4UZAEDE32GCHN0104
4UZAEDE33FCFR1690	4UZAEDE36FCGT0563	4UZAEDE37GCHG4947	4UZAEDE34GCHN0105
4UZAEDE35FCFR1691	4UZAEDE3XFCGT3403	4UZAEDE32GCHG5794	4UZAEDE36GCHN0106
4UZAEDE37FCFR1692	4UZAEDE37FCGT5724	4UZAEDE32GCHG6105	4UZAEDE38GCHN0107
4UZAEDE39FCFR1693	4UZAEDE32FCGU4993	4UZAEDE3XGCHG6143	4UZAEDE34GCHN1402
4UZAEDE30FCFR1694	4UZAEDE34FCGU4994	4UZAEDE31GCHG7097	4UZAEDE31GCHN1695
4UZAEDE32FCFR1695	4UZAEDE36FCGU4995	4UZAEDE33GCHG7165	4UZAEDE33GCHN1696
4UZAEDE34FCFR1696	4UZAEDE38FCGU4996	4UZAEDE35GCHG7166	4UZAEDE37GCHN3533
4UZAEDE36FCFR1697	4UZAEDE3XFCGU4997	4UZAEDE39GCHG7171	4UZAEDE39GCHN3534
4UZAEDE38FCFR1698	4UZAEDE31FCGU4998	4UZAEDE31GCHG8394	4UZAEDE35GCHN4115
4UZAEDE33FCFR2516	4UZAEDE33FCGU4999	4UZAEDE35GCHG9208	4UZAEDE37GCHN4116
4UZAEDE38FCFR4388	4UZAEDE34FCGU5000	4UZAEDE38GCHG9414	4UZAEDE38GCHN4528
4UZAEDE35FCFR8334	4UZAEDE34GCGU5001	4UZAEDE31GCHH0338	4UZAEDE36GCHN4933
4UZAEDE37FCFR8335	4UZAEDE36GCGU5002	4UZAEDE33GCHH0339	4UZAEDE36GCHN5449
4UZAEDE39FCFR8336	4UZAEDE38GCGU5003	4UZAEDE30GCHH0590	4UZAEDE32GCHN6095
4UZAEDE30FCFR8337	4UZAEDE3XGCGU5004	4UZAEDE3XGCHH3285	4UZAEDE3XGCHN6930
4UZAEDE35FCFR8656	4UZAEDE32FCGV4651	4UZAEDE31GCHH3286	4UZAEDE31GCHP3163
4UZAEDE31FCFR9089	4UZAEDE34FCGV5350	4UZAEDE33GCHH3340	4UZAEDE37GCHP7055
4UZAEDE30FCFS1614	4UZAEDE38FCGV5433	4UZAEDE34GCHH5405	4UZAEDE38GCHP8196
4UZAEDE35FCFS3598	4UZAEDE30FCGV6155	4UZAEDE30GCHH5854	4UZAEDE33GCHP9224

Table 1. Applicable VINs (cont'd)

4UZAED37FCFS3599	4UZAED38FCGW3516	4UZAED32GCHH5855	4UZAED38GCHR8271
4UZAED3XFCFS3600	4UZAED3XFCGW3517	4UZAED38GCHH5892	4UZAED39GCHR9364
4UZAED31FCFS3601	4UZAED31FCGW3518	4UZAED37GCHH6869	4UZAED35GCHR9961
4UZAED38FCFS5703	4UZAED36FCGW3529	4UZAED3XGCHH7689	4UZAED35GCHR9975
4UZAED33FCFS5933	4UZAED32FCGW3530	4UZAED33GCHH8487	4UZAED37GCHR9976
4UZAED37FCFS6020	4UZAED34FCGW3531	4UZAED39GCHJ0313	4UZAED39GCHR9977
4UZAED37FCFT2528	4UZAED33FCGW3892	4UZAED30GCHJ0314	4UZAED37GCHS1293
4UZAED39FCFT2529	4UZAED35FCGW9709	4UZAED37GCHJ0388	4UZAED39GCHS1294
4UZAED30FCFT2886	4UZAED35FCGX3212	4UZAED32GCHJ0461	4UZAED36GCHS1866
4UZAED32FCFT2887	4UZAED39FCGY8165	4UZAED34GCHJ0462	4UZAED38GCHS1867
4UZAED31FCFT2900	4UZAED37FCGY9038	4UZAED36GCHJ0463	4UZAED3XGCHS1868
4UZAED33FCFT2901	4UZAED34FCGZ0387	4UZAED38GCHJ0464	4UZAED39GCHS5152
4UZAED31FCFT3156	4UZAED36FCGZ0388	4UZAED3XGCHJ0465	4UZAED30GCHS5153
4UZAED33FCFT3157	4UZAED38FCGZ0389	4UZAED32GCHJ1352	4UZAED32GCHS5154
4UZAED3XFCFT3298	4UZAED34FCGZ0390	4UZAED34GCHJ1353	4UZAED34GCHS5155
4UZAED31FCFT3299	4UZAED36FCGZ0391	4UZAED36GCHJ1354	4UZAED36GCHS5156
4UZAED34FCFT3300	4UZAED38FCGZ0392	4UZAED38GCHJ1355	4UZAED38GCHS5157
4UZAED35FCFT4648	4UZAED3XFCGZ0393	4UZAED37GCHJ1783	4UZAED3XGCHS5158
4UZAED3XFCFU0378	4UZAED31FCGZ0394	4UZAED37GCHJ2285	4UZAED35GCHS5195
4UZAED39FCFU2803	4UZAED33FCGZ0395	4UZAED39GCHJ2286	4UZAED37GCHS5196
4UZAED35FCFU4547	4UZAED35FCGZ0396	4UZAED39GCHJ2577	4UZAED38GCHS5403
4UZAED3XFCFU5063	4UZAED37FCGZ0397	4UZAED33GCHJ3322	4UZAED3XGCHS5449
4UZAED36FCFU6677	4UZAED31FCGZ7748	4UZAED34GCHJ3457	4UZAED36GCHS5450
4UZAED38FCFU6678	4UZAED30GCHA3312	4UZAED36GCHJ3895	4UZAED33GCHS9441
4UZAED33FCFU8242	4UZAED35GCHA4715	4UZAED33GCHJ6625	4UZAED3XGCHT0134
4UZAED32FCFU8989	4UZAED37GCHA4716	4UZAED38GCHJ7592	4UZAED31GCHT2919
4UZAED33FCFU9794	4UZAED39GCHA4717	4UZAED35GCHJ8134	4UZAED39GCHT3879
4UZAED37FCFV4240	4UZAED30GCHA4718	4UZAED39GCHJ8198	4UZAED35GCHT3880
4UZAED33FCFV5739	4UZAED32GCHA4719	4UZAED39GCHJ8685	4UZAED37GCHT3881
4UZAED33FCFV6907	4UZAED34GCHA5869	4UZAED37GCHJ8796	4UZAED39GCHT3882
4UZAED34FCFV8486	4UZAED30GCHA5870	4UZAED38GCHJ9908	4UZAED30GCHT3883
4UZAED36FCFV8487	4UZAED32GCHA7524	4UZAED3XGCHJ9909	4UZAED32GCHT3884
4UZAED39FCFW1285	4UZAED39GCHA7553	4UZAED39GCHK0436	4UZAED34GCHT3885
4UZAED30FCFW1286	4UZAED34GCHC2221	4UZAED30GCHK0437	4UZAED36GCHT3886
4UZAED32FCFW1287	4UZAED36GCHC2222	4UZAED32GCHK0438	4UZAED38GCHT3887
4UZAED34FCFW1288	4UZAED38GCHC2223	4UZAED34GCHK0439	4UZAED3XGCHT3888

Table 1. Applicable VINs (cont'd)

4UZAEDE36FCFW1289	4UZAEDE3XGCHC2224	4UZAEDE30GCHK0440	4UZAEDE31GCHT3889
4UZAEDE31FCFW3323	4UZAEDE31GCHC2225	4UZAEDE32GCHK0441	4UZAEDE38GCHT3890
4UZAEDE33FCFW3324	4UZAEDE33GCHC2226	4UZAEDE34GCHK0442	4UZAEDE3XGCHT3891
4UZAEDE35FCFW8590	4UZAEDE33GCHC2565	4UZAEDE36GCHK0443	4UZAEDE31GCHT3892
4UZAEDE35FCFW9061	4UZAEDE34GCHC2915	4UZAEDE38GCHK0444	4UZAEDE38GCHT5204
4UZAEDE34FCFX2002	4UZAEDE36GCHC2916	4UZAEDE3XGCHK0445	4UZAEDE30GCHT5567
4UZAEDE36FCFX2003	4UZAEDE38GCHC2917	4UZAEDE31GCHK0446	4UZAEDE35GCHT8416
4UZAEDE38FCFX2004	4UZAEDE36GCHC7811	4UZAEDE33GCHK0447	4UZAEDE36GCHT8764
4UZAEDE3XFCFX2005	4UZAEDE38GCHC7812	4UZAEDE35GCHK0448	4UZAEDE33GCHU0228
4UZAEDE31FCFX2006	4UZAEDE3XGCHC7813	4UZAEDE37GCHK0449	

Use Allison DOC® to determine the existing Calibration Identification Number (CIN) in the TCM. The first 4 characters of the CIN define the software level. If the software level is earlier than BCD152, proceed with the software update. Using Allison TCM Reflash™, enter the TCM Serial Number into the 5th Generation Controls database to update the software.

Warranty Information:

Allison Service Outlets shall submit an AWAARE Claim Type 1 along with a Technical Assistance Center (TAC) Case Number on each vehicle updated to resolve this issue.

Claim any work separately even if performed simultaneously with another transmission repair, such as an overhaul or solenoid replacement.

The vehicle must be in the warranty period to have the TCM software update considered for warranty.

Claim Submittal Information:

A TAC Case Number and Special Activity Indicator PTODROP shall be used when submitting an AWAARE claim for a TCM software update to resolve this issue.

AWAARE Claim Variable Values	
Claim Type	CT1
Special Activity Indicator	PTODROP
Primary Failed Part	70
Complaint Code	AT05
Failure Code	CC03
TAC Case Number	

AWAARE Claim Labor Variable Values – Product Code 63		
Labor Operation Code/TCM	Labor Hours/TCM	Labor Operation
096501	1.0	TCM Recalibration
096400	0.5	Final Test Drive

Allison Transmission, Inc.

Attn: Allison Transmission Technical Assistance Center

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To locate the nearest authorized service center you may access the Allison Transmission Sales & Service Locator at: <http://www.allisontransmission.com/sales-service-locator>.