



Service Bulletin

File In Section: 6E - Engine Fuel & Emission

Bulletin No.: 76-65-04

Date: March, 1997



Subject: Malfunction Indicator Light (MIL) On, Poor Driveability Conditions (Perform Flash Calibration)

**Models: 1996-97 Chevrolet and GMC Light Duty Trucks
1996-97 Chevrolet Tiltmaster and GMC Forward W4 Models
1996-97 Oldsmobile Bravada
with 4.3L, 5.0L, 5.7L Engines (VINs X, W, M, R - RPOs LF6, L35, L30, L31)**

Condition

An owner of the above mentioned vehicles may report that the Malfunction Indicator Light (MIL) is on and/or the vehicle has one or more of the following driveability conditions.

1. 5.7L (L31) only: Surge or chuggle at speeds of 42 to 65 MPH while at steady speed or under light to moderate acceleration with the TCC applied.
2. MIL on with DTC P0172 or P0175 stored but no reported driveability symptoms.
3. MIL on with DTC P1406 stored and rough engine or poor driveability symptoms.
4. When operating at altitudes above 5,000 feet, an audible spark knock noise is heard.
5. Hesitation and/or misfire during light cruise conditions due to ignition cross-fire with no DTC stored. This will only occur on V-6 engines with cam retard offset in excess of 26° and V-8's with cam retard offset in excess of 15°.
6. The MIL may be on and a DTC stored for an engine misfire but no misfire occurred.
7. Engine exhibits an idle speed surge or roll.

1996 Models Only

8. MIL on with DTC P0102 stored but no reported driveability symptoms.
9. 5.0L (L30) & 5.7L (L31) only: Difficult starting in extreme cold (below 0°F) conditions.
10. 5.7L (L31) only: Poorer than expected fuel economy when heavily loaded.

1997 Models Only

11. MIL on with DTC P0121 stored but no reported driveability symptoms.
12. C/K & S/T Models with either V-6 engine and manual transmission: An exhaust backfire may occur while shifting with moderate throttle at engine speeds above 3500 RPM.
13. Either V-6 engine and manual transmission: An engine flare between shifts may be noted when the engine is cold.
14. C/K, S/T and M/L Models equipped with L35 V-engine, an improvement to the vapor canister purge diagnostics is incorporated into the new calibrations so that the Tech II can turn on canister purge at idle speed.

Correction

Follow the Strategy Based Diagnostic Steps for the customer's reported symptoms. If diagnosis does not reveal a cause, refer to the tables below for the applicable calibration change. Perform programming per the latest Techline information for programming procedures.

Important: The calibrations listed are FLASH calibrations and are not available from GMSPO. They are available on 1997 Techline CD Disc 5 and later.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Labor Time
J-6355	Use Published Labor Operation Time

1996 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
T-Utility	4.3L L35	Auto	NF2/NB6 -Z49	16232320	16235814
T-Utility	4.3L L35	Auto	NF2/NB6 &Z49	16232321	16235815
T-Utility	4.3L L35	Auto	NN8 -NA7/NA3	16232322	16235816
T-Utility	4.3L L35	Auto	NN8 & NA7/NA3	16232323	16235817
S/T-All	4.3L L35	Manual	NF2/NB6 -Z49	16232324	16235818
S/T-All	4.3L L35	Manual	NF2/NB6 &Z49	16232325	16235819
S/T-All	4.3L L35	Manual	NN8	16232326	16235820
S/T-Pickup and, S-Utility	4.3L L35	Auto	NF2/NB6 -Z49	16232327	16235821
S/T-Pickup and, S-Utility	4.3L L35	Auto	NF2/NB6 &Z49	16232328	16235822
S/T-Pickup and, S-Utility	4.3L L35	Auto	NN8 -NA7/NA3	16232329	16235823
S-Pickup	4.3L LF6	Auto	NF2/NB6 -Z49	16232330	16235824
S-Pickup	4.3L LF6	Auto	NF2/NB6 &Z49	16232331	16235825
T-Pickup	4.3L LF6	Auto	NF2/NB6 -Z49	16232332	16235826
T-Pickup	4.3L LF6	Auto	NF2/NB6 &Z49	16232333	16235827
S-Pickup	4.3L LF6	Manual	NF2/NB6 -Z49	16232334	16235828
S-Pickup	4.3L LF6	Manual	NF2/NB6 &Z49	16232335	16235829
T-Pickup	4.3L LF6	Manual	NF2/NB6 -Z49	16232336	16235830
T-Pickup	4.3L LF6	Manual	NF2/NB6 &Z49	16232337	16235831
S/T-All	4.3L L35	Auto	NM8	16232424	16232426
S/T-All	4.3L L35	Manual	NM8	16232425	16232427
M-Van	4.3L L35	Auto	NF2/NB6 -Z49	16232385	16235846
M-Van	4.3L L35	Auto	NF2/NB6 &Z49	16232386	16235847
M-Van	4.3L L35	Auto	NN8	16232387	16235848
L-Van	4.3L L35	Auto	NF2/NB6 -Z49	16232388	16235849
L-Van	4.3L L35	Auto	NF2/NB6 &Z49	16232389	16235850
L-Van	4.3L L35	Auto	NN8	16232390	16235851
M-Van	4.3L L35	Auto	NM8	16232391	16232428
L-Van	4.3L L35	Auto	NM8	16232392	16232429
C/K-10/20 Truck	4.3L L35	Manual	NA5/NB6 -Z49	16232310	16235832
C/K-10/20 Truck	4.3L L35	Manual	NA5/NB6 &Z49	16232311	16235833
C/K-10/20 Truck	4.3L L35	Manual	NN8	16232312	16235834
C/K-10/20 Truck Except EXT. Cab Step Side	4.3L L35	Auto	NA5/NB6 -Z49	16232313	16235835
C/K-10/20 Truck Except EXT. Cab Step Side	4.3L L35	Auto	NA5/NB6 &Z49	16232314	16235836
C/K-10/20 Truck Except EXT. Cab Step Side	4.3L L35	Auto	NN8	16232315	16235837
C/K-10/20 Truck with EXT. Step Side Cab	4.3L L35	Auto	NA5/NB6 -Z49	16232342	16235843

1996 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
C/K-10/20 Truck with EXT. Cab Step Side	4.3L L35	Auto	NA5/NB6 &Z49	16232343	16235844
C/K-10/20 Truck with EXT. Cab Step Side	4.3L L35	Auto	NN8	16232344	16235845
C/K-10/20 Truck	5.0L L30	Auto	NA5 -Z49	16232345	16235853
C/K-10/20 Truck	5.0L L30	Auto	NA5 &Z49	16232346	16235854
C/K-10/20 Truck	5.0L L30	Auto	NN8	16232347	16235855
C/K-10/20 Truck	5.0L L30	Auto	NF2/NB6 -Z49	16232348	16235856
C/K-10/20 Truck	5.0L L30	Manual	NA5 -Z49	16232349	16235857
C/K-10/20 Truck	5.0L L30	Manual	NA5 &Z49	16232350	16235858
C/K-10/20 Truck	5.0L L30	Manual	NN8	16232351	16235859
C/K-20/30 Truck	5.7L L31	Manual	NA4/NA5/NM8	16232422	16256096
C/K-20/30 Truck	5.7L L31	Manual	NA4/NA5 -NM8/Z49	16232355	16235864
C/K-All 20/30	5.7L L31	Auto	NA4/NB6 -Z49	16232356	16235865
C/K-All 20/30	5.7L L31	Auto	NA4/NA5 -NM8/Z49	16232357	16235866
C/K-All 20/30	5.7L L31	Auto	NA4/NA5/NM8	16232423	16256097
C-10 Truck	5.7L L31	Manual	NA1/NA5 -NM8/Z49	16232362	16235872
C-10 Truck	5.7L L31	Manual	NA1/NA5/Z49	16232363	16235873
C-10 Truck	5.7L L31	Manual	NN8	16232364	16235874
C-10 Truck	5.7L L31	Auto	NA1/NA5/NB6/NF2 -NM8/Z49	16232365	16235875
C-10 Truck	5.7L L31	Auto	NA1/NA5/Z49	16232366	16235876
C-10 Truck	5.7L L31	Auto	NN8	16232367	16235877
C-10 Truck	5.7L L31	Manual	NA1/NB6 -NM8/Z49	16232368	16235878
K-10 Truck C/K-20 Truck	5.7L L31	Auto	NA1/NA5/NB6/NF2 -NM8/Z49	16232369	16235879
K-10 Truck C/K-20 Truck	5.7L L31	Auto	NA1/NA5/Z49	16232370	16235880
K-10 Truck C/K-20 Truck	5.7L L31	Auto	NN8	16232371	16235881
C/K-10 Utility	5.7L L31	Auto	NA5/NB6/NF2 -NM8/Z49	16232372	16235882
C/K-10 Utility	5.7L L31	Auto	NA5/Z49	16232373	16235883
C/K-10 Utility	5.7L L31	Auto	NN8	16232374	16235884
K-10 Truck C/K-20 Truck	5.7L L31	Manual	NA1/NA5 -NM8/Z49	16232375	16235885
K-10 Truck C/K-20 Truck	5.7L L31	Manual	NA1/NA5/Z49	16232376	16235886
K 10/20 Truck C/K 20 Truck	5.7L L31	Manual	NA1/NB6 -NM8/Z49	16232378	16235888
K-10 Truck C/K-20 Truck	5.7L L31	Manual	NN8	16232377	16235887
C/K 10/20 All	5.7L L31	Auto	NM8	16232383	16256102

1996 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
C/K 10/20 Truck	5.7L L31	Manual	NM8	16232384	16256103
G-Van 10/20	4.3L L35	Auto	NB6 -Z49	16232316	16235838
G-Van 10/20	4.3L L35	Auto	NA5 & Z49	16232317	16235839
G-Van 10	4.3L L35	Auto	CV4/NN8	16232318	16235840
G-Van 10/20	4.3L L35	Auto	NA5 -Z49-EXP	16232319	16235841
G-Van 20	4.3L L35	Auto	NA5	16232338	16235842
G-Van All	5.0L L30	Auto	NA5 -Z49	16232352	16235860
G-Van All	5.0L L30	Auto	NA5 & Z49	16232353	16235861
G-Van All	5.0L L30	Auto	NF2/NB6 -Z49	16232354	16235862
G-Van 10/20	5.7L L31	Auto	NA5 -Z49	16232379	16235889
G-Van 10/20	5.7L L31	Auto	NA5/Z49	16232380	16235890
G-Van 10/20	5.7L L31	Auto	NA5/NM8	16232301	16256101
G-Van 10/20	5.7L L31	Auto	NA5/NN8	16232381	16235891
G-Van 10/20	5.7L L31	Auto	NB6 -Z49	16232382	16235892
G-Van 20/30	5.7L L31	Auto	NB6 -Z49	16232358	16235867
G-Van 20	5.7L L31	Auto	NA5/NM8	16227552	16256098
G-Van 20	5.7L L31	Auto	NA5 -NM8/Z49	16232359	16235868
G-Van 30	5.7L L31	Auto	NB6 -Z49	16232360	16235869
G-Van 30	5.7L L31	Auto	NA5/Z49	16232361	16235870
P-Chassis	4.3L L35	Auto	NA5	16227523	16235852
P-Chassis	5.7L L31	Auto	NA5/NM8	16235811	16256099
P-Chassis	5.7L L31	Manual	NA5/NM8	16235812	16256100
P-Chassis	5.7L L31	Auto	NB6 -Z49	16187756	16235871
P-Chassis	5.7L L31	Manual	NA5 -NM8/Z49	16187887	16235895
P-Chassis	5.7L L31	Auto	NA5/NB2 -NM8/Z49	16187888	16235896
W4	5.7L L31	Auto	NB6 -Z49	16235809	16235893
W4	5.7L L31	Auto	NA5/Z49	16235808	16235894

1997 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
T-Utility Four Door	4.3L L35	Auto	NF2/NA3/NB6 -Z49	16243498	16256222
T-Utility Four Door	4.3L L35	Auto	NF2/NB6/Z49	16243499	16256223
T-Utility Four Door	4.3L L35	Auto	NN8 -NA7	16243532	16256224
T-Utility Four Door	4.3L L35	Auto	NN8/NA7	16243533	16256225
S-Utility Four Door	4.3L L35	Auto	NF2/NB6 -Z49	16243502	16256230
S-Utility Four Door	4.3L L35	Auto	NF2/NB6/Z49	16243503	16256231
S-Utility Four Door	4.3L L35	Auto	NN8 -NA7	16243536	16256232
S-Utility Two Door	4.3L L35	Auto	NF2/NB6 -Z49	16243504	16256233
S-Utility Two Door	4.3L L35	Auto	NF2/NB6/Z49	16243505	16256234
S-Utility Two Door	4.3L L35	Auto	NN8 -NA7	16243537	16256235
T-Utility Two Door	4.3L L35	Auto	NF2/NB6 -Z49	16243500	16256226
T-Utility Two Door	4.3L L35	Auto	NF2/NB6 & Z49	16243501	16256227
T-Utility Two Door	4.3L L35	Auto	NN8	16243534	16256228
T-Utility Two Door	4.3L L35	Auto	NN8/NA3/NA7	16243535	16256229

1997 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
S/T Utility Two Door	4.3L L35	Manual	NF2/NB6 -Z49	16243510	16256243
S/T Utility Two Door	4.3L L35	Manual	NF2/NB6 &Z49	16243511	16256244
S/T Pickup	4.3L L35	Auto	NF2/NB6 -Z49	16243506	16256236
S/T Pickup	4.3L L35	Auto	NF2/NB6 &Z49	16243507	16256237
S/T Pickup	4.3L L35	Auto	NN8	16243538	16256238
S/T Pickup	4.3L L35	Manual	NF2/NB6/NA3 -Z49	16243508	16256239
S/T Pickup	4.3L L35	Manual	NF2/NB6 &Z49	16243509	16256240
S/T Pickup	4.3L L35	Manual	NN8 -NA7	16243539	16256241
S/T Pickup	4.3L L35	Manual	NN8/NA7	16243580	16256242
S/T Pickup	4.3L LF6	Auto	NF2/NB6 -Z49	16243512	16256245
S/T Pickup	4.3L LF6	Auto	NF2/NB6 &Z49	16243513	16256246
S/T Pickup	4.3L LF6	Manual	NF2/NB6 -Z49	16243514	16256247
S/T Pickup	4.3L LF6	Manual	NF2/NB6 &Z49	16243515	16256248
S/T All	4.3L L35	Auto	NM8	16251340	16256249
S/T All	4.3L L35	Manual	NM8	16251341	16256250
M-Van	4.3L L35	Auto	NF2/NA3 -Z49/NN8/NM8	16243516	16256251
M-Van	4.3L L35	Auto	NB7/NC1	16243517	16256252
M-Van	4.3L L35	Auto	NF2/Z49	16243518	16256253
M-Van	4.3L L35	Auto	NN8/NA7	16243581	16256254
M-Van	4.3L L35	Auto	NM8	16251342	16256259
L-Van	4.3L L35	Auto	NF2/NA3 -Z49/NN8/NM8	16243519	16256255
L-Van	4.3L L35	Auto	NB7/NC1	16243520	16256256
L-Van	4.3L L35	Auto	NF2/Z49	16243521	16256257
L-Van	4.3L L35	Auto	NN8/NA7	16243582	16256258
L-Van	4.3L L35	Auto	NM8	16251343	16256260
C/K Truck Reg Cab Step Side	4.3L L35	Auto	-Z49	16243522	16256261
C/K Truck Reg Cab Step Side	4.3L L35	Auto	Z49	16243523	16256262
C/K Truck Reg Cab Step Side	4.3L L35	Auto	NN8	16243583	16256263
C/K Truck 10/20	4.3L L35	Auto	-Z49/NN8	16243524	16256264
C/K Truck 10/20	4.3L L35	Auto	Z49	16243525	16256265
C/K Truck 10/20	4.3L L35	Auto	NN8	16243584	16256266
C/K Truck 10/20	4.3L L35	Auto	-Z49/NN8	16243526	16256267
C/K Truck 10/20	4.3L L35	Auto	Z49	16243527	16256268
C/K Truck 10/20	4.3L L35	Auto	NN8	16243585	16256269
C/K Truck 10/20	4.3L L35	Manual	-Z49/NN8	16243528	16256270
C/K Truck 10/20	4.3L L35	Manual	Z49	16243529	16256271
C/K Truck 10/20	4.3L L35	Manual	NN8	16243586	16256272
C/K Truck 10/20	4.3L L35	Manual	-Z49/NN8	16243530	16256273
C/K Truck 10/20	4.3L L35	Manual	Z49	16243531	16256274
C/K Truck 10/20	4.3L L35	Manual	NN8	16243587	16256275
C-Truck 10/20 K-Truck 10	5.0L L30	Auto	NB6	16243419	16256281

1997 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
C-Truck 10/20 K-Truck 10	5.0L L30	Auto	NF2/NN8	16243420	16256282
C-Truck 10/20 K-Truck 10	5.0L L30	Auto	NF2/Z49	16204232	16256283
C-Truck 10/20 K-Truck 10	5.0L L30	Manual	NF2 -Z49/NN8	16251347	16256284
C-Truck 10/20 K-Truck 10	5.0L L30	Manual	NF2/Z49	16251348	16256285
C-Truck 10/20 K-Truck 10	5.0L L30	Auto	NF2 -NN8/Z49	16243422	162562866
C-Truck 10/20 K-Truck 10	5.0L L30	Manual	NF2/NN8	16251349	16256287
C/K Truck 20/30	5.7L L31	Manual	NA4/NA5/NM8	16204188	16256291
C/K Truck 20/30	5.7L L31	Manual	NA4/NA5 -NM8	16243425	16256292
C/K 20/30 All	5.7L L31	Auto	NA4/NB6 -KL6	16243426	16256293
C/K 20/30 All	5.7L L31	Auto	NA4/NA5 -NM8/KL6	16243427	16256294
C/K 20/30 All	5.7L L31	Auto	NA4/NA5/NM8 -KL6	16204191	16256295
C-Truck 20/30	5.7L L31	Auto	ZW9	16232516	16256296
C/K Truck 10/20	5.7L L31	Manual	NA1/NB6/NF2-NM8/NN8	16243431	16256304
C/K Truck 10/20	5.7L L31	Manual	NA1/NF2/Z49	16204196	16256305
C/K Truck 10/20	5.7L L31	Manual	NA1/NF2/NN8	16232484	16256306
C/K 10/20 All	5.7L L31	Auto	NA1 -NM8/Z49	16243432	16256307
C/K 10/20 All	5.7L L31	Auto	NA1/Z49	16204197	16256308
C/K 10/20 All	5.7L L31	Auto	NA1/NN8	16232487	16256309
C 10/20 All K 10 All	5.7L L31	Auto	NM8	16251344	16256310
C 10/20 Truck K 20 Truck	5.7L L31	Manual	NM8	16251345	16256311
G-Van 10/20	4.3L L35	Auto	NF2/NB6 -Z49/EXP	16243417	16256276
G-Van 10/20	4.3L L35	Auto	NF2/Z49	16204133	16256277
G-Van 10	4.3L L35	Auto	CV4/NN8	16204134	16256278
G-Van 20	4.3L L35	Auto	NA5	16243418	16256279
G-Van 10/20	5.0L L30	Auto	NB6 -Z49	16243423	16256288
G-Van 10/20	5.0L L30	Auto	NA5 -Z49	16243424	16256289
G-Van 10/20	5.0L L30	Auto	NA5/Z49	16204135	16256290
G-Van 20/30	5.7L L31	Auto	NB6 -NM8/Z49	16243428	16256297
G-Van 20	5.7L L31	Auto	NA5/NM8	16204143	16256298
G-Van 20/30	5.7L L31	Auto	NA5/Z49 -NM8	16243429	16256299
G-Van 30	5.7L L31	Auto	NB6 -Z49	16243430	16256300
G-Van 10/20	5.7L L31	Auto	NA1/NF2/NB6 -NM8/Z49	16243433	16256312
G-Van 10/20	5.7L L31	Auto	NA5/Z49	16204136	16256313
G-Van 10/20	5.7L L31	Auto	NA5/NM8	16204130	16256314
G-Van 10/20	5.7L L31	Auto	NA5/NN8	16243434	16256315

1997 Model Year					
Model-Body Style	Engine	Trans	Emission/Usage	Old Cal	New Cal
P-Chassis	4.3L L35	Auto	NA5	16226705	16256280
P-Chassis	5.7L L31	Auto	NA5/NM8	16204158	16256301
P-Chassis	5.7L L31	Manual	NA5/NM8	16204157	16256302
P-Chassis	5.7L L31	Auto	NB6	16243457	16256303
P-Chassis	5.7L L31	Manual	NA5 -NM8/Z49	16204162	16256318
P-Chassis	5.7L L31	Auto	NA5/NB2 -NM8/Z49	16204163	16256319
W4	5.7L L31	Auto	NB6/-Z49	16235809	16235893
W4	5.7L L31	Auto	NA5/Z49	16235808	16235894

