

DDEC III/IV System Flash Codes

TO READ CODES: Use the diagnostic data reader or depress and hold the diagnostic request switch with the ignition on, engine at idle or not running. Then, and hold the switch. Seven codes will be flashed on the stop engine light, followed by the inactive codes being flashed on the check engine light. This cycle will repeat until the operator releases the diagnostic request switch.

Flash Codes	DDEC System Description
01	VSS sensor input voltage low
02	VSS sensor input voltage high
03	Coolant level sensor input voltage low
04	Oil, coolant, or intercooler temp. sensor input voltage high
05	Oil, coolant, or intercooler temp. sensor input voltage low
06	Coolant level sensor input voltage high
07	Bypass or throttle, valve position sensor input voltage high
08	Bypass or throttle, valve position sensor input voltage low
09	TPS input voltage high
10	TPS input voltage low
11	Fuel temp. sensor input voltage high
12	Fuel temp. sensor input voltage low
13	No active codes
14	Aux. engine shutdown #1, or #2, input active
15	Air inlet or intake air temp. sensor input voltage high
16	Air inlet or intake air temp. sensor input voltage low
17	Aux. high side output open-circuit or short to ground
18	OIL, or SLS, short to battery (+) or open circuit
19	Turbo boost sensor input voltage high
20	Turbo boost sensor input voltage low
21	Oil pressure sensor input voltage high
22	Oil pressure sensor input voltage low
23	Fuel pressure sensor input voltage high
24	Fuel pressure sensor input voltage low
25	No many SPS (missing SPS)
26	No low SPS (missing SPS)
27	Coolant level low
28	Oil, coolant, intercooler or intake air temp. high
29	Oil pressure low
30	ECM battery voltage low
31	Fuel, air inlet, or turbo boost, pressure high
32	Fuel or air inlet pressure low
33	ECM A/D conversion fault
34	ECM non-volatile memory fault
35	Vehicle speed sensor fault
36	J1939 data link fault
37	J1937 data link fault
38	J1939 data link fault
39	Torque overload
40	Injector response time long
41	Aux. output short to battery (+) or open circuit, or mach. fault
42	ECM drive short to battery (+) or open circuit
43	Turbo speed sensor input fault
44	Throttle valve position input fault
45	Engine knock sensor input fault
46	Coolant or air inlet, pressure sensor input voltage fault
47	TPS idle validation switch open-circuit or short to ground
48	Injector response time short
49	Vehicle purged
50	Gas valve position input fault or ECM fault
51	Optimized idler safety loop short to ground
52	ECM battery voltage high
53	Engine overspeed with engine brake
54	Fuel temperature high
55	Oil level, intercooler pre, dual fuel BCL, or exh. temp. vent high
56	Oil level, intercooler pre, dual fuel BCL, or exh. temp. vent low
57	Oil level, intercooler pre, exhaust temp., or external pump pre, high
58	Oil level or intercooler pressure, low
59	Engine overspeed
60	External pump or barometer, pressure sensor input voltage high
61	External pump or barometer, pressure sensor input voltage low
62	Coolant level low

SAE Faults

SAE Faults	Flash Code	DDEC System Description
P001 0	00	Throttle valve position above normal range
P001 1	01	Throttle valve position below normal range
P001 2	02	Throttle valve input voltage high
P001 3	03	Throttle valve input voltage low
P001 4	04	Throttle valve not responding
P002 0	44	Intercooler temp. high
P002 1	45	Intercooler sensor input voltage high
P002 2	46	Intercooler sensor input voltage low
P002 3	47	Optimized idler safety loop short to ground
P002 4	48	Bypass position sensor input voltage high
P002 5	49	Bypass position sensor input voltage low
P003 0	83	External pump pressure high
P003 1	84	Pump pressure sensor input voltage high
P003 2	85	Pump pressure sensor input voltage low
P004 0	72	Vehicle overspeed (failed)
P004 1	73	Vehicle overspeed (abnormal)
P004 2	74	Vehicle speed sensor failure
P005 0	21	Throttle position sensor input voltage high
P005 1	22	Throttle position sensor input voltage low
P006 0	58	Torque overload
P006 1	59	Fuel pressure high
P006 2	60	Fuel pressure low
P006 3	61	Fuel pressure sensor input voltage high
P006 4	62	Fuel pressure sensor input voltage low
P007 0	83	Oil level high
P007 1	84	Oil level low
P007 2	85	Oil level sensor input voltage high
P007 3	86	Oil level sensor input voltage low
P008 0	49	Oil pressure low
P008 1	50	Oil pressure sensor input voltage high
P008 2	51	Oil pressure sensor input voltage low
P008 3	52	Overboost pressure high
P008 4	53	Overboost pressure low
P008 5	54	Overboost pressure sensor input voltage high
P008 6	55	Overboost pressure sensor input voltage low
P009 0	47	Turbo boost pressure high
P009 1	48	Turbo boost pressure sensor input voltage high
P009 2	49	Turbo boost pressure sensor input voltage low
P009 3	50	Turbo speed sensor input failure
P010 0	44	Intake air temp. high
P010 1	45	Intake air temp. sensor input voltage high
P010 2	46	Intake air temp. sensor input voltage low
P010 3	47	Air inlet pressure high
P010 4	48	Air inlet pressure low
P010 5	49	Air inlet pressure sensor input voltage high
P010 6	50	Air inlet pressure sensor input voltage low
P011 0	86	Baro. pressure sensor input voltage high
P011 1	87	Baro. pressure sensor input voltage low
P011 2	88	Coolant pressure low
P011 3	89	Coolant pressure sensor input voltage high
P011 4	90	Coolant pressure sensor input voltage low
P012 0	44	Coolant temp. high
P012 1	45	Coolant temp. sensor input voltage high
P012 2	46	Coolant temp. sensor input voltage low
P012 3	47	Coolant level low
P012 4	48	Coolant level sensor input voltage high
P012 5	49	Coolant level sensor input voltage low
P012 6	50	Engine overspeed with engine brake
P012 7	51	ECM battery voltage high
P012 8	52	ECM battery voltage low
P012 9	53	Air temp. sensor input voltage high
P013 0	54	Air temp. sensor input voltage low
P013 1	55	Exhaust temperature high
P013 2	56	Exh. temp. sensor input voltage high
P013 3	57	Exh. temp. sensor input voltage low
P013 4	58	Fuel temperature high
P013 5	59	Fuel temp. sensor input voltage high
P013 6	60	Fuel temp. sensor input voltage low

SAE Faults

SAE Faults	Flash Code	DDEC System Description
P013 7	61	Oil temp. high
P013 8	62	Oil temp. sensor input voltage high
P013 9	63	Oil temp. sensor input voltage low
P014 0	12	VSS sensor input voltage low
P014 1	13	VSS sensor input voltage high
P014 2	14	VSS sensor input voltage low
P014 3	15	VSS sensor input voltage high
P014 4	16	Engine overspeed
P014 5	17	Check module abnormal ops
P014 6	18	Check module fault
P014 7	19	Injector #1 response time long
P014 8	20	Injector #1 response time short
P014 9	21	Injector #2 response time long
P015 0	22	Injector #2 response time short
P015 1	23	Injector #3 response time long
P015 2	24	Injector #3 response time short
P015 3	25	Injector #4 response time long
P015 4	26	Injector #4 response time short
P015 5	27	Injector #5 response time long
P015 6	28	Injector #5 response time short
P015 7	29	Injector #6 response time long
P015 8	30	Injector #6 response time short
P015 9	31	Injector #7 response time long
P016 0	32	Injector #7 response time short
P016 1	33	Injector #8 response time long
P016 2	34	Injector #8 response time short
P016 3	35	Injector #9 response time long
P016 4	36	Injector #9 response time short
P016 5	37	Injector #10 response time long
P016 6	38	Injector #10 response time short
P016 7	39	Injector #11 response time long
P016 8	40	Injector #11 response time short
P016 9	41	Injector #12 response time long
P017 0	42	Injector #12 response time short
P017 1	43	Injector #13 response time long
P017 2	44	Injector #13 response time short
P017 3	45	Injector #14 response time long
P017 4	46	Injector #14 response time short
P017 5	47	Injector #15 response time long
P017 6	48	Injector #15 response time short
P017 7	49	Injector #16 response time long
P017 8	50	Injector #16 response time short
P017 9	51	Dual fuel BCL input voltage high
P018 0	52	Dual fuel BCL input voltage low
P018 1	53	No many SPS (missing SPS)
P018 2	54	No low SPS (missing SPS)
P018 3	55	Aux. engine shutdown #1 input active
P018 4	56	Aux. Output #1 short to battery (+)
P018 5	57	Aux. Output #1 open circuit
P018 6	58	Aux. Output #1 Mach. System not responding properly
P018 7	59	Aux. Output #2 short to battery (+)
P018 8	60	Aux. Output #2 open circuit
P018 9	61	Aux. Output #2 Mach. System not responding properly
P019 0	62	Injector #17 response time long
P019 1	63	Injector #17 response time short
P019 2	64	Injector #18 response time long
P019 3	65	Injector #18 response time short
P019 4	66	Injector #19 response time long
P019 5	67	Injector #19 response time short
P019 6	68	Injector #20 response time long
P019 7	69	Injector #20 response time short
P019 8	70	Aux. Output #3 short to ground
P019 9	71	Aux. Output #3 open circuit
P020 0	72	Aux. Output #4 short to ground
P020 1	73	Aux. Output #4 open circuit
P020 2	74	Aux. Output #5 short to ground
P020 3	75	Aux. Output #5 open circuit

02 Freightliner Century Codes

Xiang Xie



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Review of the 21st Century Truck Partnership National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee to Review the 21st Century Truck Partnership, 2008-10-19 The 21st Century Truck Partnership 21CTP a cooperative research and development partnership formed by four federal agencies with 15 industrial partners was launched in the year 2000 with high hopes that it would dramatically advance the technologies used in trucks and buses yielding a cleaner safer more efficient generation of vehicles Review of the 21st Century Truck Partnership critically examines and comments on the overall adequacy and balance of the 21CTP The book reviews how well the program has accomplished its goals evaluates progress in the program and makes recommendations to improve the likelihood of the Partnership meeting its goals Key recommendations of the book include that the 21CTP should be continued but the future program should be revised and better balanced A clearer goal setting strategy should be developed and the goals should be clearly stated in measurable engineering terms and reviewed periodically so as to be based on the available funds **U.S. Business Directory**, 1999 **The Railway Magazine**, 2006 Teaching Computational Creativity Michael Filimowicz, Veronika Tzankova, 2017-05-02 SS JA DN MF SS DN MF DN MF DN MF DN Afterword Toward a Curricular Synthesis Index The Compu-mark Directory of U.S. Trademarks, 1991 Commerce Business Daily, 1999 **Canadian Who's Who 2003** Elizabeth Lumley, 2003-03 Now in its 93rd year of publication this standard Canadian reference source contains comprehensive and authoritative biographical information on notable living Canadians Those listed are carefully selected because of the positions they hold in Canadian society or because of the contribution they have made to life in Canada entries are added each year to keep current with developing trends and issues in Canadian society Included are outstanding Canadians from all walks of life politics media academia business sports and the arts from every area of human activity memberships creative works honours and awards and full addresses Of use to researchers students media business government and schools it is a useful source of general knowledge Government Contracts Directory, 1988 The Directory of U.S. Trademarks, 1993 The Martindale-Hubbell Law Directory, 1976 Forthcoming Books Rose Army, 1983 **British Books in Print**, 1980

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