

Frame	Time hh:mm:ss .zzz	Fuel	Calculate	Engine	Short	Long	Short	Long	
		System 1/2 Status PID_03	d Load Value PID_04	Coolant Temperat ure PID_05	Term Fuel Trim - Bank 1 PID_06	Term Fuel Trim - Bank 1 PID_07	Term Fuel Trim - Bank 2 PID_08	Term Fuel Trim - Bank 2 PID_09	
		-	%	-C	%	%	%	%	
2	41:13.1	CL/CL		4	9	0	-3.1	0	-2.3
3	41:17.4	CL/CL		4	9	0	-3.1	0	-2.3
4	41:21.7	OL/OL		4	9	0	-3.1	0	-2.3
5	41:26.2	OL/OL		4	9	0	-3.1	0	-2.3
6	41:30.5	OL/OL		4	9	0	-3.1	0	-2.3
7	41:34.7	OL/OL		8	9	0	-3.1	0	-2.3
8	41:39.0	OL/OL		7	9	0	-3.1	0	-2.3
9	41:43.2	OL/OL		3	11	0	-3.1	0	-2.3
10	41:49.0	OL/OL		4	11	0	-3.1	0	-2.3
11	41:53.2	OL/OL		4	11	0	-3.1	0	-2.3
12	41:57.5	OL/OL		4	11	0	-3.1	0	-2.3
13	42:01.8	OL/OL		4	11	0	-3.1	0	-2.3
14	42:06.0	OL/OL		4	11	0	-3.1	0	-2.3
15	42:10.6	OL/OL		3	11	0	-3.1	0	-2.3
16	42:14.8	OL/OL		3	11	0	-3.1	0	-2.3
17	42:19.0	OL/OL		3	11	0	-3.1	0	-2.3
18	42:23.3	OL/OL		3	11	0	-3.1	0	-2.3
19	42:27.5	OL/OL		3	18	0	-3.1	0	-2.3
20	42:33.3	OL/OL		3	18	0	-3.1	0	-2.3
21	42:37.5	OL/OL		3	18	0	-3.1	0	-2.3
22	42:41.7	OL/OL		3	18	0	-3.1	0	-2.3

23	42:45.9 OL/OL	3	18	0	-3.1	0	-2.3
24	42:50.2 OL/OL	3	18	0	-3.1	0	-2.3
25	42:54.8 OL/OL	3	18	0	-3.1	0	-2.3
26	42:59.0 OL/OL	10	18	0	-3.1	0	-2.3
27	43:03.2 OL/OL	8	18	0	-3.1	0	-2.3
28	43:07.5 OL/OL	11	18	7	-3.1	7	-2.3
29	43:11.7 CL/CL	15	24	12.5	-3.1	7.8	-2.3
30	43:17.5 CL/CL	3	24	-0.8	-3.1	-2.3	-2.3
31	43:21.8 CL/CL	21	24	0	-3.1	0.8	-2.3
32	43:26.1 CL/CL	11	24	15.6	-3.1	13.3	-2.3
33	43:30.4 CL/CL	9	24	6.3	-3.1	3.9	-2.3
34	43:34.6 CL/CL	9	24	11.7	-3.1	8.6	-2.3
35	43:39.3 CL/CL	10	24	13.3	-3.1	9.4	-2.3
36	43:43.7 CL/CL	11	24	13.3	-3.1	14.1	-2.3
37	43:48.0 CL/CL	5	24	0	-3.1	0	-2.3
38	43:52.3 CL/CL	10	24	3.9	-3.1	5.5	-2.3
39	43:56.6 CL/CL	10	35	13.3	-3.1	14.1	-2.3
40	44:02.3 CL/CL	25	35	16.4	-3.1	0	-2.3
41	44:06.6 CL/CL	10	35	14.1	-3.1	9.4	-2.3
42	44:10.8 CL/CL	4	35	0	-3.1	0	-2.3
43	44:15.1 CL/CL	9	35	2.3	-3.1	4.7	-2.3
44	44:19.3 CL/CL	20	35	25	-3.1	25	-2.3
45	44:23.8 CL/CL	9	35	7.8	-3.1	6.3	-2.3
46	44:28.1 CL/CL	10	35	7	-3.1	4.7	-2.3
47	44:32.3 CL/CL	5	35	0	-3.1	0	-2.3

48	44:36.6	CL/CL OL driving/O	16	35	18.8	-3.1	18.8	-2.3
49	44:40.9	L drivin OL driving/O	25	45	0	0.8	0	0.8
50	44:46.7	L drivin OL driving/O	5	45	0	0.8	0	0.8
51	44:50.9	L drivin OL driving/O	9	45	3.9	0.8	4.7	0.8
52	44:55.1	L drivin OL driving/O	4	45	0	0.8	0	0.8
53	44:59.4	L drivin	17	45	14.1	0.8	14.1	0.8
54	45:03.6	CL/CL	15	45	21.1	0.8	18	0.8
55	45:08.1	CL/CL	4	45	0	0.8	0	0.8
56	45:12.4	CL/CL	11	45	3.1	0.8	3.1	0.8
57	45:16.7	CL/CL	18	45	4.7	0.8	0	0.8
58	45:20.9	CL/CL	4	45	0	0.8	0	0.8
59	45:25.1	CL/CL	9	54	4.7	-3.1	0	-2.3
60	45:30.8	CL/CL	15	54	14.8	-3.1	17.2	-2.3
61	45:35.1	CL/CL	4	54	0	-3.1	0	-2.3
62	45:39.3	CL/CL	3	54	0	-3.1	0	-2.3
63	45:43.6	CL/CL	4	54	0	-3.1	0	-2.3
64	45:47.9	CL/CL	7	54	3.1	-3.1	1.6	-2.3
65	45:52.5	CL/CL	9	54	8.6	-3.1	10.2	-2.3
66	45:56.8	CL/CL	16	54	14.1	-3.1	17.2	-2.3
67	46:01.0	CL/CL	5	54	0	-3.1	0	-2.3
68	46:05.4	CL/CL OL driving/O	10	54	11.7	-3.1	13.3	-2.3
69	46:09.7	L drivin	34	60	4.7	-1.6	10.2	-2.3

		OL driving/O						
70	46:15.5	L drivin	5	60	0	-1.6	0	-2.3
		OL driving/O						
71	46:20.2	L drivin	5	60	0	-1.6	0	-2.3
		OL driving/O						
72	46:24.5	L drivin	8	60	2.3	-1.6	-0.8	-2.3
		OL driving/O						
73	46:28.7	L drivin	19	60	21.1	-1.6	22.7	-2.3
74	46:33.0	CL/CL	10	60	10.2	-1.6	10.9	-2.3
75	46:37.6	CL/CL	10	60	9.4	-1.6	6.3	-2.3
76	46:41.8	CL/CL	5	60	0	-1.6	0	-2.3
77	46:46.1	CL/CL	2	60	3.9	-1.6	1.6	-2.3
78	46:50.4	CL/CL	21	60	14.1	-1.6	15.6	-2.3
79	46:54.5	CL/CL	5	66	0	-0.8	0	0.8
80	47:00.3	CL/CL	7	66	0.8	-0.8	0.8	0.8
81	47:04.6	CL/CL	9	66	3.9	-0.8	1.6	0.8
82	47:08.8	CL/CL	10	66	-2.3	-0.8	0.8	0.8
83	47:13.1	CL/CL	25	66	4.7	-0.8	0	0.8
84	47:17.4	CL/CL	7	66	-4.7	-0.8	-2.3	0.8
85	47:21.9	CL/CL	10	66	2.3	-0.8	1.6	0.8
86	47:26.2	CL/CL	5	66	0	-0.8	0	0.8
87	47:30.4	CL/CL	23	66	21.1	-0.8	19.5	0.8
88	47:34.7	CL/CL	5	66	0	-0.8	0	0.8
		OL driving/O						
89	47:39.0	L drivin	4	74	0	-0.8	0	0.8
		OL driving/O						
90	47:44.7	L drivin	4	74	0	-0.8	0	0.8
		OL driving/O						
91	47:49.0	L drivin	2	74	2.3	-0.8	0.8	0.8

		OL driving/O						
92	47:53.3	L drivin	2	74	4.7	-0.8	3.9	0.8
		OL driving/O						
93	47:57.5	L drivin	2	74	3.9	-0.8	2.3	0.8
94	48:01.8	CL/CL	2	74	3.9	-0.8	2.3	0.8
95	48:06.3	CL/CL	11	74	4.7	-0.8	6.3	0.8
96	48:10.5	CL/CL	2	74	0	-0.8	1.6	0.8
97	48:14.8	CL/CL	12	74	3.1	-0.8	5.5	0.8
98	48:19.1	CL/CL	11	74	7.8	-0.8	5.5	0.8
99	48:23.3	CL/CL	8	78	2.3	1.6	6.3	3.1
100	48:29.1	CL/CL	7	78	-3.1	1.6	-3.9	3.1
101	48:33.3	CL/CL	5	78	-7	1.6	-7.8	3.1
102	48:37.5	CL/CL	5	78	-7	1.6	-8.6	3.1
103	48:41.8	CL/CL	5	78	-8.6	1.6	-6.3	3.1
		OL driving/O						
104	48:46.1	L drivin	4	78	0	1.6	0	3.1
		OL driving/O						
105	48:50.7	L drivin	3	78	2.3	1.6	0.8	3.1
		OL driving/O						
106	48:54.9	L drivin	4	78	0	1.6	0	3.1
		OL driving/O						
107	48:59.1	L drivin	2	78	0	1.6	0.8	3.1
		OL driving/O						
108	49:03.4	L drivin	2	78	-0.8	1.6	1.6	3.1
109	49:07.6	CL/CL	5	82	-4.7	0	-2.3	0.8
110	49:13.4	CL/CL	2	82	0	0	-0.8	0.8
111	49:17.6	CL/CL	2	82	0	0	3.1	0.8
112	49:21.8	CL/CL	2	82	0	0	0	0.8
113	49:26.0	CL/CL	2	82	-2.3	0	0.8	0.8

114	49:30.3	CL/CL	Error	82	Error	0	Error	0.8
115	49:34.9	CL/CL	Error	82	Error	0	Error	0.8

Engine RPM	Vehicle Speed	Ignition Timing Advance for #1 Cylinder	Intake Air Temperature	Air Flow Rate	Absolute Throttle Position	Commanded Secondary Air Status	O2 Sensor Bank 1	O2 Sensor Bank 2
PID_0C	PID_0D	PID_0E	PID_0F	PID_10	PID_11	PID_12	PID_14	PID_18
U/min	km/h	-	-C	g/s	%	-	V-%	V-%
958	0	14	-40	9.16	0	air off	0.435 - 0.0	0.435 - 0.0
787	0	14	-40	10.48	0	air off	0.435 - 0.0	0.435 - 0.0
918	0	12	-40	10.89	0	air off	0.435 - 0.0	0.435 - 0.0
1000	0	9	-40	11.1	0	air off	0.435 - 0.0	0.435 - 0.0
1034	0	8	-40	10.62	0	air off	0.440 - 0.0	0.435 - 0.0
2236	0	8	-40	10.27	0	air off	0.485 - 0.0	0.440 - 0.0
1025	0	13	-40	8.88	0	air off	0.305 - 0.0	0.470 - 0.0
827	0	17	10	10.06	0	air off	0.195 - 0.0	0.395 - 0.0
848	1	16	10	9.92	7.5	air off	0.125 - 0.0	0.225 - 0.0
835	0	15	10	9.85	0	air off	0.075 - 0.0	0.140 - 0.0
837	0	12	10	10.27	0	air off	0.070 - 0.0	0.125 - 0.0
954	0	13	10	9.09	0	air off	0.040 - 0.0	0.065 - 0.0
986	0	12	10	9.23	0	air off	0.015 - 0.0	0.055 - 0.0
937	0	12	10	9.09	0	air off	0.010 - 0.0	0.040 - 0.0
941	0	12	10	9.37	0	air off	0.005 - 0.0	0.035 - 0.0
944	0	13	10	9.64	0	air off	0.000 - 0.0	0.025 - 0.0
932	0	11	10	9.64	0	air off	0.000 - 0.0	0.010 - 0.0
929	0	11	11	9.71	0	air off	0.000 - 0.0	0.010 - 0.0
933	0	8	11	9.5	0	air off	0.000 - 0.0	0.010 - 0.0
930	0	11	11	9.44	0	air off	0.005 - 0.0	0.000 - 0.0
910	0	22	11	16.38	7.1	air off	0.0	0.0

923	0	11	11	8.88	0 air off	0.000 - 0.0	0.005 - 0.0
884	0	12	11	9.85	0 air off	0.005 - 0.0	0.010 - 0.0
801	1	11	11	9.71	0 air off	0.005 - 0.0	0.010 - 0.0
1054	5	10	11	9.16	4.3 air off	0.005 - 0.0	0.010 - 0.0
1255	8	10	11	9.78	0 air off	0.015 - 0.0	0.015 - 0.0
2154	16	33	11	28.59	12.6 air off	0.780 - 5.5	0.040 - 7.0
1286	27	9	12	10.41	0 air off	0.810 - - 0.8	0.705 - - 3.1
828	3	16	12	25.89	20.8 air off	0.010 - 8.6	0.010 - 11.7
2577	36	32	12	37.69	16.5 air off	0.760 - 13.3	0.045 - 15.6
2127	46	33	12	27.41	13.3 air off	0.380 - 9.4	0.495 - 8.6
2165	47	35	12	25.47	11.8 air off	0.765 - 8.6	0.225 - 12.5
2264	50	35	12	26.65	12.2 air off	0.245 - 13.3	0.700 - 10.9
2473	53	31	12	29.43	12.2 air off	0.065 - 11.7	0.730 - 10.2
1967	60	27	12	49.28	97.3 air off	0.000 - 6.2	0.010 - 11.7
2090	65	37	12	20.47	7.1 air off	0.720 - 2.3	0.730 - 2.3
2086	65	30	12	38.03	16.9 air off	0.735 - 12.5	0.690 - 10.9
2255	70	33	12	28.73	12.6 air off	0.100 - 12.5	0.620 - 10.9
3366	76	43	12	33.38	14.9 air off	0.025 - 13.3	0.765 - 12.5
2329	72	17	12	44.98	35.3 air off	0.770 - 21.1	0.875 - 0.0
1505	61	11	12	9.64	0 air off	0.025 - 1.6	0.055 - 3.1
1646	37	21	12	44.7	45.5 air off	0.030 - 18.0	0.065 - 22.7
2962	67	36	12	41.3	16.5 air off	0.765 - 17.2	0.800 - 14.1
2249	70	36	12	25.68	11 air off	0.140 - 12.5	0.090 - 12.5
2271	71	36	12	26.03	10.2 air off	0.770 - 8.6	0.000 - 0.0
2022	62	35	12	38.38	22 air off	0.025 - 7.8	0.025 - 9.4

2339	73	27	12	56.71	36.9 air off	0.065 - 25.0	0.055 - 25.0
4575	102	35	13	17.77	0 air off	0.000 - 0.0	0.000 - 0.0
2132	90	18	13	13.81	7.1 air off	0.150 - 1.6	0.095 - 2.3
2051	83	36	13	15.61	0.8 air off	0.720 - 0.0	0.000 - 0.0
1681	71	11	13	16.24	11.8 air off	0.055 - 4.7	0.040 - 5.5
2555	76	32	13	48.58	20 air off	0.025 - 10.2	0.060 - 14.8
2046	81	31	13	37.2	41.2 air off	0.025 - 0.0	0.025 - 0.0
1994	83	15	13	11.93	0.4 air off	0.000 - 0.0	0.000 - 0.0
1845	76	22	13	46.16	40.4 air off	0.040 - 18.7	0.060 - 0.0
2098	86	24	13	27.27	0 air off	0.000 - 0.0	0.000 - 0.0
1850	77	12	13	11.1	0 air off	0.000 - 0.0	0.040 - 1.6
1571	66	6	13	37.96	28.2 air off	0.030 - 5.5	0.040 - 9.4
1772	73	11	13	10.48	0 air off	0.000 - 0.0	0.000 - 0.0
1474	62	10	13	9.37	0 air off	0.000 - 0.0	0.000 - 0.0
1654	52	9	13	11.93	0 air off	0.000 - 0.0	0.000 - 0.0
1824	40	34	13	19.22	6.7 air off	0.090 - 0.8	0.225 - 2.3
1939	42	35	13	25.4	10.6 air off	0.040 - 6.2	0.070 - 8.6
2165	47	35	13	24.78	11.8 air off	0.575 - 9.4	0.360 - 9.4
2568	57	29	13	69.34	61.6 air off	0.015 - 10.2	0.025 - 0.0
3105	68	28	13	31.51	16.9 air off	0.025 - 5.5	0.040 - 10.2
2955	65	38	13	41.02	29.8 air off	0.045 - 21.9	0.095 - 22.7
2876	90	22	15	16.65	0 air off	0.000 - 0.0	0.000 - 0.0

2360	73	27	15	58.58	78.4 air off	0.015 - 3.9	0.810 - 3.9
2364	72	19	15	14.09	0.4 air off	0.090 - 2.3	0.045 - 3.1
2166	67	37	15	53.72	36.9 air off	0.025 - 9.4	0.035 - 13.3
2574	81	33	15	38.38	15.7 air off	0.745 - 14.1	0.135 - 13.3
2649	82	37	15	27.9	11.8 air off	0.375 - 7.8	0.735 - 6.2
2597	81	37	15	25.26	0 air off	0.000 - 0.0	0.000 - 0.0
1916	57	10	15	10.62	0 air off	0.000 - 0.0	0.010 - 2.3
780	3	9	15	7.56	13.3 air off	0.740 - 1.6	0.035 - 6.2
2803	36	30	15	69.2	69.8 air off	0.710 - 25.0	0.740 - 21.1
2748	61	21	16	16.17	7.1 air off	0.170 - 1.6	0.555 - 0.0
2863	63	30	16	21.03	7.5 air off	0.070 - 2.3	0.105 - 0.8
2855	63	39	16	24.57	8.6 air off	0.140 - 2.3	0.780 - 0.0
2723	61	30	16	69.83	94.9 air off	0.010 - 3.9	0.035 - 0.0
3485	76	24	16	16.17	0.4 air off	0.000 - 0.0	0.000 - 0.0
2876	62	21	16	16.38	0.4 air off	0.000 - 0.0	0.095 - 0.0
2603	58	33	16	75.86	36.9 air off	0.855 - 10.9	0.000 - 0.0
2699	60	38	16	32.2	21.6 air off	0.030 - 7.8	0.035 - 13.3
3469	77	24	16	35.47	15.3 air off	0.835 - 12.5	0.000 - 0.0
2343	72	18	16	13.25	0 air off	0.000 - 0.0	0.000 - 0.0
1866	57	11	16	10.96	0 air off	0.000 - 0.0	0.000 - 0.0
1544	47	9	16	8.88	0 air off	0.000 - 0.0	0.035 - 0.8
754	3	7	16	7.21	0 air off	0.065 - 3.9	0.060 - 4.7

720	0	6	16	6.66	0 air off	0.715 - 3.1	0.110 - 6.2
701	0	10	16	6.45	0 air off	0.710 - 2.3	0.085 - 3.1
714	0	7	16	6.45	0 air off	0.090 - 4.7	0.780 - 1.6
1739	20	7	16	8.26	0 air off	0.060 - 3.9	0.760 - 0.8
722	2	6	16	6.87	0 air off	0.065 - 5.5	0.805 - 3.9
2045	20	32	16	34.77	19.2 air off	0.120 - 16.4	0.130 - 16.4
2712	42	38	16	27.14	11.8 air off	0.810 - 4.7	0.775 - 3.1
2369	51	37	19	14.5	0 air off	0.000 - 0.0	0.000 - 0.0
2158	46	38	19	16.03	3.9 air off	0.730 -- 7.0	0.560 -- 7.0
2138	46	33	19	15.06	3.9 air off	0.550 -- 7.8	0.085 -- 6.2
2089	45	34	19	16.17	3.9 air off	0.120 -- 4.7	0.130 -- 10.2
2048	43	34	19	21.37	16.9 air off	0.030 -- 2.3	0.705 -- 1.6
1876	41	9	19	10.06	0 air off	0.000 - 0.0	0.000 - 0.0
1262	27	24	19	24.15	13.7 air off	0.720 -- 0.8	0.735 -- 0.8
1471	32	9	19	8.32	0 air off	0.000 - 0.0	0.065 - 3.9
799	15	6	19	6.94	0 air off	0.090 - 1.6	0.140 - 3.1
1048	5	29	19	18.25	8.2 air off	0.685 -- 6.2	0.750 -- 3.9
744	8	23	18	12.84	5.5 air off	0.170 -- 2.3	0.210 - 0.0
743	7	7	18	6.52	0 air off	0.065 - 1.6	0.065 - 2.3
747	3	7	18	6.52	0 air off	0.210 - 1.6	0.225 - 0.8
728	0	7	18	6.38	0 air off	0.070 - 0.0	0.730 -- 1.6
719	0	12	18	5.83	0 air off	0.060 - 0.8	0.275 - 1.6

Error

Error

Error

18 Error

Error

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