

Time (sec)	Engine coolant temperature (°F)	Short term fuel % trim - Bank 1 (%)	Long term fuel % trim - Bank 1 (%)	Engine RPM (RPM)	Vehicle speed (MPH)	O2 sensor lambda (Bank 1 Sensor 1)	Fuel/Air commanded equivalence ratio	Battery Voltage	Time Since Engine Start	Average STFT Bank1	Average LTFT Bank 1	Average Vehicle Air Fuel Ratio	Average Battery Voltage
0	0	0	0	0	0	0	0	0	0	-1.4	0.3	1.0	13.7
10	147	0.00	0.00	0	0	1.00	0.99	13.73	137				
20	147	0.00	0.00	0	0	1.00	0.99	13.73	137				
30	145	0.00	0.00	0	2	1.00	0.99	13.73	137				
40	149	0.00	0.00	0	2	0.82	0.99	13.73	141				
50	147	0.78	0.00	1370	6	0.98	0.99	13.63	148				
60	151	0.00	0.00	0	2	1.09	0.99	13.73	156				
70	151	-2.34	1.56	1536	9	0.99	0.99	13.61	162				
80	154	-14.84	-2.34	1127	11	0.93	1.00	13.63	171				
90	158	-1.56	0.78	1551	7	0.99	0.99	13.63	181				
100	162	-1.56	1.56	2115	22	0.99	0.99	13.63	191				
110	169	-3.91	0.78	1419	26	0.98	0.99	13.63	202				
120	172	-4.69	-1.56	1038	25	0.97	1.00	13.63	212				
130	172	-2.34	-1.56	1008	4	0.99	1.00	13.65	221				
140	176	0.00	2.34	2427	22	0.99	0.99	13.63	231				
150	180	0.00	1.56	1695	32	0.99	0.99	13.63	241				
160	172	0.00	0.78	1503	35	0.99	0.99	13.63	251				
170	178	-1.56	1.56	1648	37	0.99	0.99	13.63	260				
180	176	0.78	-0.78	1270	39	1.00	0.99	13.63	270				
190	176	0.00	0.00	1480	38	0.99	0.99	13.61	280				
200	178	0.00	-2.34	1213	38	1.02	1.00	13.63	290				
210	180	-0.78	1.56	1848	39	0.99	0.99	13.61	299				
220	183	-0.78	0.00	1305	40	1.01	0.99	13.63	310				
230	185	0.00	0.00	0	32	0.98	1.00	13.73	316				
240	183	0.00	0.00	0	8	0.98	1.00	13.73	316				
250	185	-2.34	1.56	2007	16	0.99	0.99	13.61	321				
260	187	-3.13	3.13	2650	39	1.00	0.99	13.63	331				
270	187	0.00	0.78	1617	43	0.99	0.99	13.61	340				

Normal battery voltage with engine running 13.8 to 14.7	Before changing battery
Press Start Twice w/o depressing brake (IGN) 11.796 volts	
(IGN) A/C fan on 11.45 Volts	
(IGN) A/C fan and lights 10-78 volts	
32 mpg	
Voltage at Battery 12.85	After changing batter
Voltage at OBD engine on 13.7	
IGN mode 12.3 to 12.9 volts	
IGN mode lights on 11.9 to 12.4 volts	
Both before and after changing the battery values in columns	
all of the columns remained constant.	
Battery voltage may have change 0.1 volt but not much	
The converter was able to compensate and keep the voltage steady	
The original battery only showed itself as bad with the vehicle in (IG mode (engine off) under a load.	