**********LIVE DATA**********

VIN:

Saturday afternoon run, new MAF sensor

PROTOCOL: J1850 VPW

LANGUAGE: English

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	7.5%
Engine Coolant Temperature	77F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	19.8inHg
Engine RPM	925/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	22.5
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	23.46g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.900V
Short Term Fuel Trim (B1-S1)	0.0%

Oxygen Sensor Output Voltage (B1-S2)	0.970V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.595V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.800V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	78F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	20.7inHg
Engine RPM	975/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	4.5
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	21.14g/s
Absolute Throttle Position	0.4%

Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.945V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.910V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.690V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.910V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	3.9%
Engine Coolant Temperature	80F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	29.1inHg
Engine RPM	0/min
Vehicle Speed	0mph

Ignition Timing Advance for #1 Cylinder		0.0
Intake Air Temperature	75F	
Air Flow Rate from Mass Air Flow Sensor		10.99g/s
Absolute Throttle Position	0.8%	
Commanded Secondary Air Status		OFF
Oxygen Sensor Output Voltage (B1-S1)		0.965V
Short Term Fuel Trim (B1-S1)		0.0%
Oxygen Sensor Output Voltage (B1-S2)		0.970V
Short Term Fuel Trim (B1-S2)		99.2%
Oxygen Sensor Output Voltage (B2-S1)		0.775V
Short Term Fuel Trim (B2-S1)		0.0%
Oxygen Sensor Output Voltage (B2-S2)		0.970V
Short Term Fuel Trim (B2-S2)		99.2%
OBD requirements	OBD2	
Fuel system 1 status	OL	
Fuel system 2 status	OL	
Calculated LOAD Value	3.9%	
Engine Coolant Temperature		80F
Short Term Fuel Trim - Bank 1		0.0%
Long Term Fuel Trim - Bank 1		-1.6%
Short Term Fuel Trim - Bank 2		0.0%
Long Term Fuel Trim - Bank 2		-1.6%

Intake Manifold Absolute Pressure	24.0inHg
Engine RPM	856/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	17.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	20.93g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	1.005V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.985V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.805V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.975V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	7.1%
Engine Coolant Temperature	82F

Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	14.1inHg
Engine RPM	1193/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	13.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	19.74g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	1.000V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.975V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.815V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.975V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL

Fuel system 2 status	OL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	84F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	13.8inHg
Engine RPM	1174/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	13.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	19.26g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	1.005V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.975V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.820V
Short Term Fuel Trim (B2-S1)	0.0%

Oxygen Sensor Output Voltage (B2-S2)	0.980V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	86F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	13.8inHg
Engine RPM	1136/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	12.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	18.42g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.995V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.970V

Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.835V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.990V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	86F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	13.8inHg
Engine RPM	1147/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	12.5
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	17.75g/s
Absolute Throttle Position	0.0%

Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	1.000V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.970V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.845V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.990V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	87F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	13.8inHg
Engine RPM	1129/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	12.0

Intake Air Temperature	75F	
Air Flow Rate from Mass Air Flow Sensor		17.23g/s
Absolute Throttle Position	0.0%	
Commanded Secondary Air Status		OFF
Oxygen Sensor Output Voltage (B1-S1)		0.985V
Short Term Fuel Trim (B1-S1)		0.0%
Oxygen Sensor Output Voltage (B1-S2)		0.965V
Short Term Fuel Trim (B1-S2)		99.2%
Oxygen Sensor Output Voltage (B2-S1)		0.845V
Short Term Fuel Trim (B2-S1)		0.0%
Oxygen Sensor Output Voltage (B2-S2)		0.985V
Short Term Fuel Trim (B2-S2)		99.2%
OBD requirements	OBD2	
Fuel system 1 status	OL	
Fuel system 2 status	OL	
Calculated LOAD Value	5.9%	
Engine Coolant Temperature		89F
Short Term Fuel Trim - Bank 1		0.0%
Long Term Fuel Trim - Bank 1		-1.6%
Short Term Fuel Trim - Bank 2		0.0%
Long Term Fuel Trim - Bank 2		-1.6%

Intake Manifold Absolute Pressure	16.5inHg
Engine RPM	959/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	11.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	16.75g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.990V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.970V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.870V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	1.000V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	5.9%
Engine Coolant Temperature	91F
Short Term Fuel Trim - Bank 1	0.0%

Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	16.2inHg
Engine RPM	971/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	8.5
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	17.42g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.985V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.970V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.870V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.990V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL

Fuel system 2 status	OL
Calculated LOAD Value	5.9%
Engine Coolant Temperature	93F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.0inHg
Engine RPM	939/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	21.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	19.55g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.995V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.975V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.900V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	1.000V

Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	5.5%
Engine Coolant Temperature	95F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	16.2inHg
Engine RPM	960/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	10.5
Intake Air Temperature	77F
Air Flow Rate from Mass Air Flow Sensor	16.65g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.980V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.965V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.900V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.985V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	
Engine Coolant Temperature	96F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.6inHg
Engine RPM	904/min
Vehicle Speed	0mph
Ignition Timing Advance for #1 Cylinder	20.5
Intake Air Temperature	77F

Air Flow Rate from Mass Air Flow Sensor	18.38g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.985V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.970V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.910V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.985V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	98F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.6inHg
Engine RPM	930/min
Vehicle Speed	3mph
Ignition Timing Advance for #1 Cylinder	18.0
Intake Air Temperature	77F
Air Flow Rate from Mass Air Flow Sensor	18.74g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.975V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.965V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.910V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.985V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	100F

Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.6inHg
Engine RPM	886/min
Vehicle Speed	3mph
Ignition Timing Advance for #1 Cylinder	18.0
Intake Air Temperature	77F
Air Flow Rate from Mass Air Flow Sensor	18.74g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.975V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.960V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.915V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.980V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	104F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	17.4inHg
Engine RPM	948/min
Vehicle Speed	5mph
Ignition Timing Advance for #1 Cylinder	17.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	18.58g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.970V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.960V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.910V

Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.975V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	104F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	15.3inHg
Engine RPM	1158/min
Vehicle Speed	9mph
Ignition Timing Advance for #1 Cylinder	25.5
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	19.68g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.960V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.940V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.905V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.970V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	7.1%
Engine Coolant Temperature	105F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	15.0inHg
Engine RPM	1053/min
Vehicle Speed	6mph
Ignition Timing Advance for #1 Cylinder	21.5

Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	18.57g/s
Absolute Throttle Position	0.0%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.970V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.960V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.915V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.975V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	107F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	17.1inHg
Engine RPM	1051/min
Vehicle Speed	6mph
Ignition Timing Advance for #1 Cylinder	26.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	23.00g/s
Absolute Throttle Position	5.9%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.965V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.945V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.905V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.970V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	10.6%

Engine Coolant Temperature	111F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	14.1inHg
Engine RPM	1751/min
Vehicle Speed	15mph
Ignition Timing Advance for #1 Cylinder	34.5
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	35.96g/s
Absolute Throttle Position	12.5%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.970V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.960V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.920V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.970V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	15.7%
Engine Coolant Temperature	111F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.3inHg
Engine RPM	1699/min
Vehicle Speed	26mph
Ignition Timing Advance for #1 Cylinder	33.0
Intake Air Temperature	75F
Air Flow Rate from Mass Air Flow Sensor	39.62g/s
Absolute Throttle Position	15.7%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.965V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.950V
Short Term Fuel Trim (B1-S2)	99.2%

Oxygen Sensor Output Voltage (B2-S1)	0.920V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.980V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	12.2%
Engine Coolant Temperature	113F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	17.4inHg
Engine RPM	1440/min
Vehicle Speed	31mph
Ignition Timing Advance for #1 Cylinder	30.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	33.75g/s
Absolute Throttle Position	12.5%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.970V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.960V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.905V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.980V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	14.5%
Engine Coolant Temperature	116F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	19.2inHg
Engine RPM	1642/min
Vehicle Speed	37mph

Ignition Timing Advance for #1 Cylinder	30.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	46.30g/s
Absolute Throttle Position	19.6%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.955V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.950V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.915V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.970V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	17.3%
Engine Coolant Temperature	118F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.6inHg
Engine RPM	1776/min
Vehicle Speed	43mph
Ignition Timing Advance for #1 Cylinder	31.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	45.96g/s

Absolute Throttle Position	18.8%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.960V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.950V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.915V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.965V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	14.5%
Engine Coolant Temperature	120F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	19.2inHg
Engine RPM	1571/min
Vehicle Speed	47mph
Ignition Timing Advance for #1 Cylinder	31.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	39.32g/s
Absolute Throttle Position	16.9%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.960V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.945V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.920V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.970V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	OL
Fuel system 2 status	OL

Calculated LOAD Value	13.7%
Engine Coolant Temperature	120F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	18.6inHg
Engine RPM	1575/min
Vehicle Speed	50mph
Ignition Timing Advance for #1 Cylinder	32.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	38.32g/s
Absolute Throttle Position	16.1%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.960V
Short Term Fuel Trim (B1-S1)	0.0%
Oxygen Sensor Output Voltage (B1-S2)	0.950V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.920V
Short Term Fuel Trim (B2-S1)	0.0%
Oxygen Sensor Output Voltage (B2-S2)	0.970V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	OL
Fuel system 2 status	OL
Calculated LOAD Value	12.5%
Engine Coolant Temperature	122F
Short Term Fuel Trim - Bank 1	0.0%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	17.4inHg
Engine RPM	1527/min
Vehicle Speed	52mph
Ignition Timing Advance for #1 Cylinder	32.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	29.96g/s
Absolute Throttle Position	9.8%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.955V
Short Term Fuel Trim (B1-S1)	-3.9%
Oxygen Sensor Output Voltage (B1-S2)	0.945V

Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.875V
Short Term Fuel Trim (B2-S1)	-15.6%
Oxygen Sensor Output Voltage (B2-S2)	0.900V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	7.8%
Engine Coolant Temperature	125F
Short Term Fuel Trim - Bank 1	-25.8%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-26.6%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	13.2inHg
Engine RPM	1413/min
Vehicle Speed	52mph
Ignition Timing Advance for #1 Cylinder	36.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	22.43g/s
Absolute Throttle Position	4.7%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.420V
Short Term Fuel Trim (B1-S1)	-20.3%
Oxygen Sensor Output Voltage (B1-S2)	0.085V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.390V
Short Term Fuel Trim (B2-S1)	-16.4%
Oxygen Sensor Output Voltage (B2-S2)	0.075V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	7.5%
Engine Coolant Temperature	129F
Short Term Fuel Trim - Bank 1	-16.4%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-14.8%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	13.2inHg
Engine RPM	1408/min

Vehicle Speed	51mph
Ignition Timing Advance for #1 Cylinder	36.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	22.03g/s
Absolute Throttle Position	4.3%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.890V
Short Term Fuel Trim (B1-S1)	-21.1%
Oxygen Sensor Output Voltage (B1-S2)	0.835V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.210V
Short Term Fuel Trim (B2-S1)	-15.6%
Oxygen Sensor Output Voltage (B2-S2)	0.200V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	7.8%
Engine Coolant Temperature	131F
Short Term Fuel Trim - Bank 1	-23.4%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-13.3%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	14.1inHg
Engine RPM	1429/min
Vehicle Speed	50mph
Ignition Timing Advance for #1 Cylinder	31.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	45.89g/s
Absolute Throttle Position	21.2%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.075V
Short Term Fuel Trim (B1-S1)	-9.4%
Oxygen Sensor Output Voltage (B1-S2)	0.035V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.375V
Short Term Fuel Trim (B2-S1)	-7.0%
Oxygen Sensor Output Voltage (B2-S2)	0.400V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL

Fuel system 2 status	CL
Calculated LOAD Value	21.2%
Engine Coolant Temperature	132F
Short Term Fuel Trim - Bank 1	-14.1%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-7.0%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	21.6inHg
Engine RPM	1828/min
Vehicle Speed	56mph
Ignition Timing Advance for #1 Cylinder	28.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	59.75g/s
Absolute Throttle Position	25.1%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.835V
Short Term Fuel Trim (B1-S1)	-14.1%
Oxygen Sensor Output Voltage (B1-S2)	0.430V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.805V
Short Term Fuel Trim (B2-S1)	-12.5%
Oxygen Sensor Output Voltage (B2-S2)	0.835V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	19.2%
Engine Coolant Temperature	134F
Short Term Fuel Trim - Bank 1	-7.8%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-12.5%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	20.1inHg
Engine RPM	1823/min
Vehicle Speed	60mph
Ignition Timing Advance for #1 Cylinder	30.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	53.77g/s
Absolute Throttle Position	22.7%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.295V
Short Term Fuel Trim (B1-S1)	-7.8%

Oxygen Sensor Output Voltage (B1-S2)	0.670V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.805V
Short Term Fuel Trim (B2-S1)	-12.5%
Oxygen Sensor Output Voltage (B2-S2)	0.775V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	16.5%
Engine Coolant Temperature	136F
Short Term Fuel Trim - Bank 1	-13.3%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-13.3%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	17.1inHg
Engine RPM	1763/min
Vehicle Speed	63mph
Ignition Timing Advance for #1 Cylinder	33.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	38.35g/s
Absolute Throttle Position	14.5%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.600V
Short Term Fuel Trim (B1-S1)	-11.7%
Oxygen Sensor Output Voltage (B1-S2)	0.890V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.805V
Short Term Fuel Trim (B2-S1)	-18.8%
Oxygen Sensor Output Voltage (B2-S2)	0.805V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	138F
Short Term Fuel Trim - Bank 1	-13.3%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-23.4%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	10.2inHg

Engine RPM	1577/min
Vehicle Speed	62mph
Ignition Timing Advance for #1 Cylinder	40.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	17.77g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.850V
Short Term Fuel Trim (B1-S1)	-19.5%
Oxygen Sensor Output Voltage (B1-S2)	0.825V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.210V
Short Term Fuel Trim (B2-S1)	-19.5%
Oxygen Sensor Output Voltage (B2-S2)	0.810V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2

Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	5.9%
Engine Coolant Temperature	141F
Short Term Fuel Trim - Bank 1	-21.1%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-18.8%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	10.8inHg
Engine RPM	1510/min
Vehicle Speed	58mph
Ignition Timing Advance for #1 Cylinder	38.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	17.53g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.145V
Short Term Fuel Trim (B1-S1)	-15.6%
Oxygen Sensor Output Voltage (B1-S2)	0.055V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.060V
Short Term Fuel Trim (B2-S1)	-14.8%
Oxygen Sensor Output Voltage (B2-S2)	0.115V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL

Fuel system 2 status	CL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	143F
Short Term Fuel Trim - Bank 1	-13.3%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-14.8%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	11.1inHg
Engine RPM	1452/min
Vehicle Speed	57mph
Ignition Timing Advance for #1 Cylinder	38.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	17.08g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.200V
Short Term Fuel Trim (B1-S1)	-17.2%
Oxygen Sensor Output Voltage (B1-S2)	0.500V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.095V
Short Term Fuel Trim (B2-S1)	-6.3%
Oxygen Sensor Output Voltage (B2-S2)	0.255V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	5.9%
Engine Coolant Temperature	145F
Short Term Fuel Trim - Bank 1	-18.8%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-9.4%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	11.1inHg
Engine RPM	1401/min
Vehicle Speed	54mph
Ignition Timing Advance for #1 Cylinder	37.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	16.96g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.705V
Short Term Fuel Trim (B1-S1)	-21.9%
Oxygen Sensor Output Voltage (B1-S2)	0.535V

Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.775V
Short Term Fuel Trim (B2-S1)	-18.8%
Oxygen Sensor Output Voltage (B2-S2)	0.790V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	147F
Short Term Fuel Trim - Bank 1	-15.6%
Long Term Fuel Trim - Bank 1	-1.6%
Short Term Fuel Trim - Bank 2	-18.8%
Long Term Fuel Trim - Bank 2	-1.6%
Intake Manifold Absolute Pressure	12.6inHg
Engine RPM	1347/min
Vehicle Speed	53mph
Ignition Timing Advance for #1 Cylinder	36.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	19.52g/s
Absolute Throttle Position	4.3%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.560V
Short Term Fuel Trim (B1-S1)	-14.8%
Oxygen Sensor Output Voltage (B1-S2)	0.795V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.120V
Short Term Fuel Trim (B2-S1)	-14.1%
Oxygen Sensor Output Voltage (B2-S2)	0.665V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	149F
Short Term Fuel Trim - Bank 1	-19.5%
Long Term Fuel Trim - Bank 1	-2.3%
Short Term Fuel Trim - Bank 2	-12.5%
Long Term Fuel Trim - Bank 2	-2.3%
Intake Manifold Absolute Pressure	12.6inHg
Engine RPM	1325/min
Vehicle Speed	52mph
Ignition Timing Advance for #1 Cylinder	36.0

Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	19.08g/s
Absolute Throttle Position	4.3%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.125V
Short Term Fuel Trim (B1-S1)	-11.7%
Oxygen Sensor Output Voltage (B1-S2)	0.050V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.055V
Short Term Fuel Trim (B2-S1)	-7.8%
Oxygen Sensor Output Voltage (B2-S2)	0.095V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	6.7%
Engine Coolant Temperature	150F
Short Term Fuel Trim - Bank 1	-6.3%
Long Term Fuel Trim - Bank 1	-5.5%
Short Term Fuel Trim - Bank 2	-5.5%
Long Term Fuel Trim - Bank 2	-5.5%
Intake Manifold Absolute Pressure	12.9inHg
Engine RPM	1305/min
Vehicle Speed	50mph
Ignition Timing Advance for #1 Cylinder	35.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	18.96g/s
Absolute Throttle Position	4.3%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.680V
Short Term Fuel Trim (B1-S1)	-8.6%
Oxygen Sensor Output Voltage (B1-S2)	0.840V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.810V
Short Term Fuel Trim (B2-S1)	-7.8%
Oxygen Sensor Output Voltage (B2-S2)	0.855V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	152F
Short Term Fuel Trim - Bank 1	-6.3%

Long Term Fuel Trim - Bank 1	-9.4%
Short Term Fuel Trim - Bank 2	-7.0%
Long Term Fuel Trim - Bank 2	-9.4%
Intake Manifold Absolute Pressure	12.9inHg
Engine RPM	1274/min
Vehicle Speed	49mph
Ignition Timing Advance for #1 Cylinder	35.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	16.29g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.885V
Short Term Fuel Trim (B1-S1)	-6.3%
Oxygen Sensor Output Voltage (B1-S2)	0.890V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.820V
Short Term Fuel Trim (B2-S1)	-12.5%
Oxygen Sensor Output Voltage (B2-S2)	0.860V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	5.5%
Engine Coolant Temperature	154F
Short Term Fuel Trim - Bank 1	1.6%
Long Term Fuel Trim - Bank 1	-10.2%
Short Term Fuel Trim - Bank 2	-4.7%
Long Term Fuel Trim - Bank 2	-11.7%
Intake Manifold Absolute Pressure	12.3inHg
Engine RPM	1223/min
Vehicle Speed	48mph
Ignition Timing Advance for #1 Cylinder	34.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	16.50g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.570V
Short Term Fuel Trim (B1-S1)	-0.8%
Oxygen Sensor Output Voltage (B1-S2)	0.910V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.880V
Short Term Fuel Trim (B2-S1)	-8.6%
Oxygen Sensor Output Voltage (B2-S2)	0.935V

Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	5.5%
Engine Coolant Temperature	154F
Short Term Fuel Trim - Bank 1	-13.3%
Long Term Fuel Trim - Bank 1	-3.9%
Short Term Fuel Trim - Bank 2	-10.2%
Long Term Fuel Trim - Bank 2	-3.9%
Intake Manifold Absolute Pressure	12.9inHg
Engine RPM	1185/min
Vehicle Speed	46mph
Ignition Timing Advance for #1 Cylinder	35.0
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	16.08g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.220V
Short Term Fuel Trim (B1-S1)	-12.5%
Oxygen Sensor Output Voltage (B1-S2)	0.170V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.090V
Short Term Fuel Trim (B2-S1)	-2.3%
Oxygen Sensor Output Voltage (B2-S2)	0.180V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	6.3%
Engine Coolant Temperature	156F
Short Term Fuel Trim - Bank 1	-11.7%
Long Term Fuel Trim - Bank 1	-7.8%
Short Term Fuel Trim - Bank 2	-2.3%
Long Term Fuel Trim - Bank 2	-7.8%
Intake Manifold Absolute Pressure	15.3inHg
Engine RPM	1293/min
Vehicle Speed	43mph
Ignition Timing Advance for #1 Cylinder	30.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	26.82g/s
Absolute Throttle Position	11.4%
Commanded Secondary Air Status	OFF

Oxygen Sensor Output Voltage (B1-S1)	0.070V
Short Term Fuel Trim (B1-S1)	2.3%
Oxygen Sensor Output Voltage (B1-S2)	0.330V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.770V
Short Term Fuel Trim (B2-S1)	-8.6%
Oxygen Sensor Output Voltage (B2-S2)	0.760V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	11.8%
Engine Coolant Temperature	158F
Short Term Fuel Trim - Bank 1	-14.1%
Long Term Fuel Trim - Bank 1	-2.3%
Short Term Fuel Trim - Bank 2	0.0%
Long Term Fuel Trim - Bank 2	-6.3%
Intake Manifold Absolute Pressure	13.2inHg
Engine RPM	1191/min
Vehicle Speed	42mph
Ignition Timing Advance for #1 Cylinder	33.5
Intake Air Temperature	73F
Air Flow Rate from Mass Air Flow Sensor	16.15g/s
Absolute Throttle Position	0.4%
Commanded Secondary Air Status	OFF
Oxygen Sensor Output Voltage (B1-S1)	0.905V
Short Term Fuel Trim (B1-S1)	-9.4%
Oxygen Sensor Output Voltage (B1-S2)	0.910V
Short Term Fuel Trim (B1-S2)	99.2%
Oxygen Sensor Output Voltage (B2-S1)	0.775V
Short Term Fuel Trim (B2-S1)	-16.4%
Oxygen Sensor Output Voltage (B2-S2)	0.780V
Short Term Fuel Trim (B2-S2)	99.2%
OBD requirements	OBD2
Fuel system 1 status	CL
Fuel system 2 status	CL
Calculated LOAD Value	5.5%
Engine Coolant Temperature	159F
Short Term Fuel Trim - Bank 1	-0.8%