



Diagnostic Report

ID: 36

Type: Diagnostic Report

16 Faults

03/29/2024 5:27 PM

2015 TOYOTA CAMRY L4, 2.5L; DOHC; 16V; SEFI

VIN: 4T1BF1FK2FU103343

Odometer: 25615 miles

Battery Voltage: N/A

Name: hao hao

OBD2 Diagnostics

Emissions Inspection Status	
FAIL	This vehicle is not ready for an Emission Test further diagnostics is required.
Confirmed/MIL DTC	
P0113	Intake Air Temperature Circuit High Input

Fix for DTC

Most Likely Component/System Cause for DTC

Mass Air Flow (MAF) Sensor

Repair Tips

Initial Inspection

During your initial inspection, check for obvious mechanical signs such as torn inlet boots, missing or broken vacuum tees, and/or cracked, broken, or disconnected wire harnesses. Make sure all harness connectors are properly placed in the connectors and holders. This will prevent potential open or short-circuit issues. Also, check connectors for corrosion, frayed wiring, and damaged terminals. In addition, inspect the battery terminals and check the state of charge before attempting to diagnose possible electrical faults. Check for aftermarket performance modules tapped into the sensor wires. Inspect the vacuum hoses and make sure they fit tightly to a manifold vacuum source on the engine. Inspect the air inlet pipes/hoses between the Mass Air Flow (MAF) and the throttle body. This fault may be caused by a vacuum leak, or a dirty or disconnected MAF sensor. Refer to the Vehicle Emissions Warranty Manual for time and mileage coverage for the emissions-related fault(s). For additional information, refer to the Service Manual or applicable Technical Service Bulletin (TSB).

Possible Cause

- Faulty MAF Sensor

Diagnostic Procedure

1. Inspect the MAF Sensor
 - a. When you look at Fuel Trim at idle, these numbers are greatly influenced by vacuum leaks. Check the Long-Term Fuel Trim (LTFT) at idle and 2500 RPM. The value should be no more than +/- 10%.
 - If LTFT is in range, go to Step 1b.
 - If LTFT is greater than 10% idle but less at 2500 RPM, suspect a vacuum leak.
 - If LTFT is greater than +10% on one bank and -10% on the other bank, suspect restricted exhaust or internal mechanical engine problems.
 - b. Check the MAF sensor readings at both the Key ON Engine OFF (KOEO) position and 3000 RPM. At the KOEO position, MAF values should be less than 0.47 g/s. At 3000 RPM, MAF values should be around 8.0–22.0 g/s.
 - If values are within specification. Perform Repair Validation.
 - If values are out of specification, replace the MAF sensor. Perform Repair Validation.

Repair Validation

1. Clear Diagnostic Trouble Codes (DTC(s)) and Freeze Frame (FF) information.
2. Perform the KOEO and Key ON Engine Running (KOER) test or follow the OBD2 drive cycle requirements for the fault area.
3. An optional method to validate the repair would be to operate the vehicle within the conditions recorded in the FF data.
4. Check for pending or stored DTC(s). If none is found, the repair is complete.

Note: Perform throttle service and Idle Air Volume Learning procedures after repairs and clear self-learn values.

Freeze Frame			
Fuel Sys 1	OL	Fuel Sys 2	OL
Calc Load	0.0 %	ECT	-40 ?F
STFT B1	0.0 %	LTFT B1	0.0 %
STFT B2	0.0 %	LTFT B2	0.0 %
Eng RPM	0	Veh Speed	0 mph
Spark Adv	5.0 ?	IAT	-40 ?F
MAF	0.07 (lb/min) hours, minutes	TPS	100.0 %
O2S B1 S2	0.015 V	STFT B1 S2	99.2 %
O2S B2 S2	0.015 V	STFT B2 S2	99.2 %
Run Time	0 sec	LAMBDA B1 S1	0.999
O2S B1 S1	3.302 V	LAMBDA B2 S1	0.998
O2S B2 S1	3.291 V	Command EVAP	0.0 %
Warm-up DTC Clr	0	Clr Dist	0 miles
BARO	35 inHg	LAMBDA B1 S1	0.999
O2S B1 S1	0.00 mA	LAMBDA B2 S1	0.998
O2S B2 S1	-0.00 mA	CAT Te 11	-40 ?F
CAT Te 21	-40 ?F	CAT Te 12	-40 ?F
CAT Te 22	-40 ?F	ECU Volts	10.585 V
LOAD Value	0.0 %	EQ Ratio	0.820
Rel TPS	83.1 %	TPS B	100.0 %
ACC Pedal D	0.0 %	ACC Pedal E	0.0 %
Command TAC	16.1 %	Clr Time	0 hrs, 0 min hours, minutes
EVAP_VPA	482.853 InH2O		

Pending DTC	
P0102	Mass Or Volume Air Flow Circuit Low Input

Permanent DTC	
P0408	Exhaust Gas Recirculation Sensor "B" Circuit (High)

Monitor Status - This Drive Cycle	
Misfire Monitor	Complete
Fuel System Monitor	Complete
Comprehensive Component Monitor (CCM)	Complete
NMHC Monitor	NotSupported
NOx Aftertreatment Monitor	NotSupported
Boost Pressure System Monitor	NotSupported
Exhaust Gas Sensor Monitor	NotSupported
PM Filter Monitor	NotSupported
EGR System Monitor	NotSupported
Catalyst Monitor	InComplete
Heated Catalyst Monitor	NotSupported
EVAP System Monitor	InComplete
Secondary Air System Monitor	NotSupported
Oxygen Sensor Monitor	InComplete
Oxygen Sensor Heater Monitor	NotSupported

Scan All Systems

SRS Airbag		1 Fault
B1620 - Current		
Side Airbag Sensor Assembly (D Seat Side)		

D-Door Motor		1 Fault
B2311 - Current Motor Malfunction		
ABS/VSC/TRAC		2 Faults
U0073 - Current Control Module Communication Bus Off	U0073 - History Control Module Communication Bus Off	
Engine and ECT		4 Faults
P0685 - History ECM/PCM Power Relay Control Circuit/Open	P0261 - Current Cylinder 1 Injector Circuit Low	
P0685 - Current ECM/PCM Power Relay Control Circuit/Open	P0261 - History Cylinder 1 Injector Circuit Low	
Sliding Roof		1 Fault
B2341 - History Sensor(Motor) Failure		
HL AutoLeveling		1 Fault
B2411 - Current Headlight Swivel ECU RH Communication		
Blind Spot Monitor Slave		1 Fault
C1AB8 - History Destination Information Undefined		
Air Conditioner		2 Faults
B1400 - Current Normal	B1441 - History Air Mix Damper Control Servo Motor Circuit (Passenger Side)	
Tire Pressure Monitor		No Fault
Blind Spot Monitor Master		No Fault
Radar Cruise		No Fault
Combination Meter		No Fault
EMPS - Electric Motor Power Steering		No Fault
Main Body		No Fault
Remote Engine Starter		No Fault

Advanced Parking Guidance/Parking Assist Monitor	No Resp/Not Equip
Intuitive P/A	No Resp/Not Equip
Lane Departure Alert	No Resp/Not Equip
Pre-Collision 2	No Resp/Not Equip
Gateway	No Resp/Not Equip
Immobiliser	No Resp/Not Equip
Master Switch	No Resp/Not Equip
Navigation System	No Resp/Not Equip
Occupant Detection	No Resp/Not Equip
P-Door Motor	No Resp/Not Equip
Telematics	No Resp/Not Equip
Theft Deterrent	No Resp/Not Equip

Scheduled Maintenance	
Next Service Due At: 30000 miles	
Inspect Exhaust System	Inspect Steering Gearbox Assembly and Linkage
Inspect Wiper & Washer System	Replace Engine Air Filter
Inspect Driveshaft & Related Components	Change Engine Oil and Filter
Inspect Fuel System	Inspect Fuel Cap Gasket
Reset Maintenance Service Indicator	Rotate Tires, Inspect Tire Wear, & Adjust Tire Pressure
Inspect Front Differential Fluid (If Equipped)	Inspect Brake Hoses & Lines
Inspect All Fluids and Correct Level	Inspect Cooling System
Inspect Transmission & Drivetrain for Leaks/Damages	Replace A/C Filter
Inspect Brake System, Friction Material & Hydraulic System	Inspect Ball Joints
Inspect Radiator and Condenser	Inspect Tie-Rod Ends, Steering Gear & Boots

Predicted Failure(s) within 12 months

Inspect for Loose Fuel Tank Cap and Tighten or Replace as Necessary \$50.58

Probability of Failure



Replace Catalytic Converter(s) \$565.73

Probability of Failure



Replace Mass Air Flow (MAF) Sensor \$273.25

Probability of Failure



Warranty Status

Not Covered

Powertrain

Up to 60 months or 60000 miles

Basic

Up to 36 months or 36000 miles

Federal Emissions

Up to 96 months or 80000 miles

Electric/Hybrid

Up to 96 months or 100000 miles

