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MIL "ON" DTC P219A and Compression Loss Into Exhaust

Service

Category Engine/Hybrid System

Section

Engine Mechanical

Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2012 – 2014	Corolla		
2012 – 2013	Matrix		

Introduction

Some 2012 – 2014 model year Corolla vehicles equipped with a 2ZR-FE engine (or 2014 model year 2ZR-FAE) and some 2012 – 2013 model year Matrix vehicles equipped with a 2ZR-FE engine may exhibit a MIL "ON" with DTC P219A (Bank 1 Air-Fuel Ratio Imbalance) present. Follow the Repair Procedure in this bulletin to improve this condition.

NOTE

2014 model year Corolla vehicles now include cylinder specific Air Fuel Ratio Imbalance DTCs P219C – P219F.

Production Change Information

This bulletin applies to:

- All 2012 2013 Matrix vehicles equipped with a 2ZR-FE engine.
- 2012 2014 Corolla vehicles produced BEFORE the Production Change Effective VINs.

MODEL	ENGINE	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
27D FF	2ZR-FE	TMMC	2T1BURHE#EC178489
Corolla	ZZR-FE	TMMMS	5YFBURHE#EP140233
Corolla	2ZR-FAE (2014)	TMMC	2T1BPRHE#EC179105
		TMMMS	5YFBPRHE#EP140395



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Warranty Information

MODEL	OP CODE	DESCRIPTION	TIME	OFP	T1	T2	
'12 – '13	110011	R & R Cyl Head Sub Assy	15.6				
Corolla	110011L	Add AC	0.1	11101-09310			
'14 Corolla (2ZR-FE)	110011	R & R Cyl Head Sub Assy	18.5				
	110011L	Add AC	0.2		11101 00210	94	41
	110011	R & R Cyl Head Sub Assy	17.1		8A 4	41	
(2ZR-FAE)	110011L	Add AC	0.2	1			
Matrice	110011	R & R Cyl Head Sub Assy	& R Cyl Head Sub Assy 15.6				
Matrix	110011L	Add AC	0.1				

APPLICABLE WARRANTY

- This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

Parts Information

PART NUMBER	PART NAME	QTY
11101-09310	Head Sub-Assy, Cylinder	1
04112-0T132	Gasket Kit Eng Valve Grind	1
13711-0T010	Valve, Intake	2 – 8
13715-0T010	Valve, Exhaust	8



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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	
Techstream Lite	ADE	TSLITEPDLR01	7

^{*} Essential SST.

NOTE

- · Only ONE of the Techstream units listed above is required.
- · Software version 9.20.022 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

TOOLS & MATERIAL	QUANTITY	
SLLC Coolant	1	
FIPG	1	
Cylinder Leak Down Tester	1	

Repair Procedure

 Use Techstream to check for DTCs and confirm the condition is present as described in the Introduction.

Are misfire DTCs (P030#) present along with DTC P219A?

- YES This bulletin does NOT apply. Diagnose the misfire DTCs using the applicable Repair Manual.
- NO Continue to step 2.
- 2. Perform cylinder leakdown test on each cylinder. Note any cylinders with high compression loss percentage. If compression loss is found during the test, listen at the exhaust, intake and crankcase to determine the source of the leakage.

Was compression loss into the exhaust system found?

- · YES Continue to step 3.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.



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Repair Procedure (Continued)

- Replace the Cylinder Head, all Exhaust Valves and Intake Valves for the affected cylinder.
 Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:
 - 2012 Corolla: Engine/Hybrid System – 2ZR-FE Engine Mechanical – "2ZR-FE Engine Mechanical: Cylinder Head Gasket: Removal / Installation / Disassembly / Reassembly"
 - 2012 Matrix: Engine/Hybrid System – 2ZR-FE Engine Mechanical – "2ZR-FE Engine Mechanical: Cylinder Head Gasket: Removal / Installation / Disassembly / Reassembly"
 - 2013 Corolla: Engine/Hybrid System – 2ZR-FE Engine Mechanical – "2ZR-FE Engine Mechanical: Cylinder Head Gasket: <u>Removal</u> / <u>Installation</u> / <u>Disassembly</u> / <u>Reassembly</u>"
 - 2013 Matrix: Engine/Hybrid System – 2ZR-FE Engine Mechanical – "2ZR-FE Engine Mechanical: Cylinder Head Gasket: Removal / Installation / Disassembly / Reassembly"
 - 2014 Corolla: Engine/Hybrid System – 2ZR-FE Engine Mechanical – "2ZR-FE Engine Mechanical: Cylinder Head Gasket: Removal / Installation" / Disassembly / Reassembly"
 - 2014 Corolla (Equipped with 2ZR-FAE):
 Engine/Hybrid System 2ZR-FAE Engine Mechanical "2ZR-FAE Engine Mechanical:
 Cylinder Head Gasket: Removal / Installation / Disassembly / Reassembly"
- Clear all DTCs using Techstream, test drive vehicle and confirm that no pending codes are present.