

MIL "ON" DTC P219A and Compression Loss Into Exhaust

Service Category Engine/Hybrid System

Section Engine Mechanical

Market USA

Toyota Supports
 ASE Certification 

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 |
|---------|-------------------|-------|---------------------------------|
| Corolla | 2ZR-FE | TMMC | 2T1BURHE#EC178489 |
| | | TMMMS | 5YFBURHE#EP140233 |
| | 2ZR-FAE (2014) | TMMC | 2T1BPRHE#EC179105 |
| | | TMMMS | 5YFBPRHE#EP140395 |

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Warranty Information

| MODEL | OP CODE | DESCRIPTION | TIME | OFF | T1 | T2 |
|--------------------------|---------|-------------------------|------|-------------|----|----|
| '12 – '13 Corolla | 110011 | R & R Cyl Head Sub Assy | 15.6 | 11101-09310 | 8A | 41 |
| | 110011L | Add AC | 0.1 | | | |
| '14 Corolla (2ZR-FE) | 110011 | R & R Cyl Head Sub Assy | 18.5 | | | |
| | 110011L | Add AC | 0.2 | | | |
| '14 Corolla (2ZR-FAE) | 110011 | R & R Cyl Head Sub Assy | 17.1 | | | |
| | 110011L | Add AC | 0.2 | | | |
| Matrix | 110011 | R & R Cyl Head Sub Assy | 15.6 | | | |
| | 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 | 1 |
| Techstream Lite | | TSLITEPDLR01 | |

* 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

1. 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)

3. 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: [Removal](#) / [Installation](#) / [Disassembly](#) / [Reassembly](#)”
 - 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](#)”
4. Clear all DTCs using Techstream, test drive vehicle and confirm that no pending codes are present.