

T-SB-0071-12

May 9, 2012

MIL "ON" DTC P030# and/or Runs Rough on Cold Start

Service
 Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|---------------|------------------------|
| 2011 – 2012 | Highlander HV | |

Introduction

Some 2011 – 2012 model year Highlander HV vehicles may exhibit one of more of the following conditions:

- MIL "ON" with DTC P0300, P0301, P0302, P0303, P0304, P0305, and/or P0306 present
- Rough running on initial start-up after a cold soak

Please follow the procedure in this bulletin to address these conditions.

Warranty Information

| OP CODE | DESCRIPTION | TIME | OFF | T1 | T2 |
|---------|------------------------|------|----------------------------|----|----|
| 895221 | Replace Fuel Injectors | 2.8 | 23209-31090 23209-0P010 | 8A | 88 |

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal Emission Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- For California specification vehicles sold, registered, and operated in Arizona (starting with '12 MY), California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New Mexico ('11 MY only), Oregon, Pennsylvania, Rhode Island, Vermont, and Washington, this repair is covered under the California Long Term Emission Warranty, which is in effect for 84 months or 70,000 miles, whichever occurs first, from the vehicle's in-service date. California specification vehicles shipped to other states' dealers do not assume coverage under the California Emission Warranty.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

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Parts Information

| PREVIOUS PART NUMBER | CURRENT PART NUMBER | PART NAME | QTY |
|----------------------|---------------------|---|-----|
| 23209-31090 | 23209-31160 | Injector Set, Fuel | 6 |
| 23209-0P010 | | | |
| 23291-28020 | 23291-28020 | Insulator, Injector Vibration | 6 |
| 23291-0V020 | | | |
| 25627-31030 | Same | Gasket, EGR Valve | 1 |
| 17179-31010 | Same | Gasket, Intake Manifold | 1 |
| 25629-31030 | Same | Gasket, EGR Pipe, No. 2 | 1 |
| 17176-0P021 | 17176-0P021 | Gasket, Air Surge Tank to Intake Manifold | 3 |
| 17176-31090 | | | |

Required Tools & Equipment

| REQUIRED EQUIPMENT | SUPPLIER | PART NUMBER | QTY |
|---|----------|-----------------------------|-----|
| TIS Techstream* or Techstream Lite NOTE: Software version 7.10.030 or later is required. | ADE | TSPKG1 or TSLITEDLR01 | 1 |

* Essential SST.

NOTE

Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Confirm the engine runs rough on initial start-up after a cold soak or any of the following DTCs are present:
 - P0300 – Random/Multiple Cylinder Misfire Detected
 - P0301 – Cylinder 1 Misfire Detected
 - P0302 – Cylinder 2 Misfire Detected
 - P0303 – Cylinder 3 Misfire Detected
 - P0304 – Cylinder 4 Misfire Detected
 - P0305 – Cylinder 5 Misfire Detected
 - P0306 – Cylinder 6 Misfire Detected

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Repair Procedure (Continued)

If other DTCs are present, this bulletin does NOT apply. Continue diagnosis per Repair Manual procedures.

2. Perform misfire diagnosis.

Refer to the Technical Information System (TIS), applicable model year Highlander HV Repair Manual:

- 2011 / 2012 Highlander HV:
Engine/Hybrid System – Engine Control – “2GR-FXE Engine Control System: SFI System: P0300-P0306: Random / Multiple Cylinder Misfire Detected”

3. If no concerns are noted with the mechanical engine condition, engine control system, ignition system, or fuel supply system, remove the fuel injectors and visually inspect the fuel injector tips for signs of debris.

Is there debris on any of the fuel injector tips?

- **YES** — Replace all six fuel injectors. Go to step 4.
- **NO** — This bulletin does NOT apply.

4. Replace the fuel injectors.

Refer to TIS, applicable model year Highlander HV Repair Manual:

- 2011 Highlander HV:
Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Injector: Removal / Installation”
- 2012 Highlander HV:
Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Injector: Removal / Installation”

5. Clear stored DTCs.
6. Start the engine and confirm the repair.