

MIL "ON" DTC P0101 with Supercharger

Service Category Engine/Hybrid System

Section Intake/Exhaust

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2014 – 2015	Tundra	

Introduction

Some 2014 – 2015 model year Tundra vehicles equipped with 3UR-FE engine and Supercharger may experience a MIL "ON" condition with the following Diagnostic Trouble Code (DTC): P0101 – Mass Air Flow Circuit Range/Performance Problem. Follow the procedures in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OPF	T1	T2
EG1512*	R & R Airbox lid, base, filter, coupler & clamps	0.9*	PTR29-00140	8A	99

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.

* Powertrain warranty ONLY applies to supercharger if it is DIO (dealer installed option). If supercharger is over the counter, warranty is ONLY 12 months.

Parts Information

PART NUMBER	PART NAME	QTY
PTR43-00090	TRD Air Filter	1
PTR03-34083	Air Box Top	1
17701-0S010	Air Box Bottom (Case)	1
PTR03-34082	Intake Tubes	1
PTR03-34071	Air Flow Monitor, Cold Air Intake	1
PTR03-35090-AE	TRD Intake Hardware Rep	1

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

Repair Procedure

1. Using Techstream, check for stored DTCs.

Is DTC P0101 or more DTCs present?

- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

NOTE

If vehicle is **NOT** equipped with a supercharger, this bulletin does **NOT** apply. Follow the Repair Manual procedures to diagnose.

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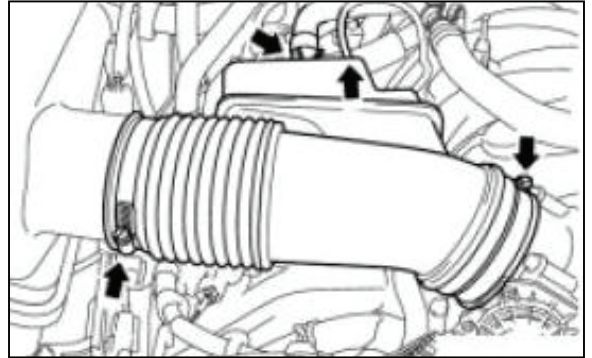
Repair Procedure (Continued)

2. Replace the Air Cleaner Box (Case), and Inlet Flow Accelerator (plastic piece that extends from lower air canister through right side engine room body panel).

- A. Remove the air inlet tube.

- (1) Disconnect the vacuum and ventilation hoses and loosen the 2 clamps (Figure 1).
- (2) Discard the air inlet tube and clamps.

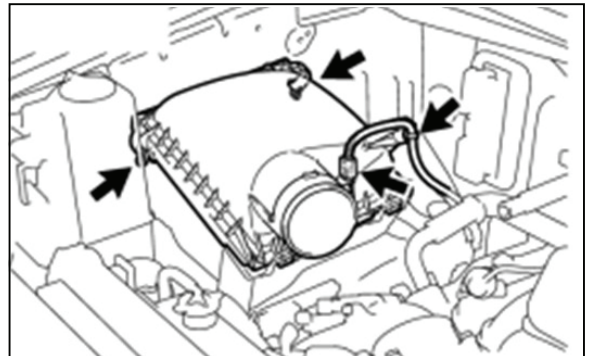
Figure 1.



- B. Remove the air cleaner lid.

- (1) Disconnect the mass airflow (MAF) meter connector (Figure 2).
- (2) Use a clip removal tool to detach the wire harness clamp.
- (3) Unfasten the 4 hook clamps.

Figure 2.



- C. Remove and discard the air cleaner element.

- D. Remove the mass airflow (MAF) meter from the air cleaner lid. Discard the air cleaner lid but retain the 2 screws.

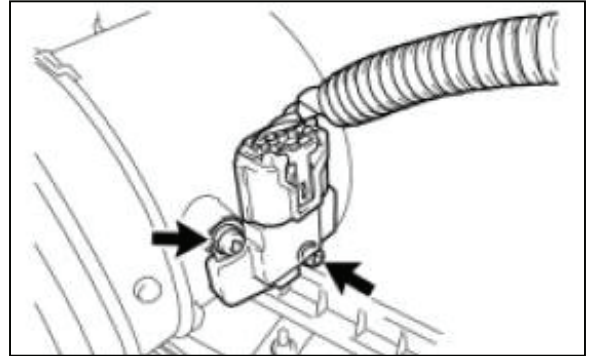
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Repair Procedure (Continued)

- E. Install the mass airflow (MAF) meter in the supplied air cleaner lid using the OE screws (Figure 3).

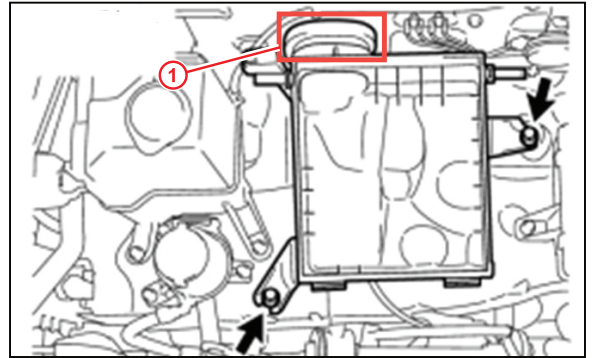
Torque: 1.7 N*m (17 kgf*cm, 15 in*lbf)

Figure 3.



- F. Remove the air cleaner case by removing the 2 bolts (Figure 4).

Figure 4.



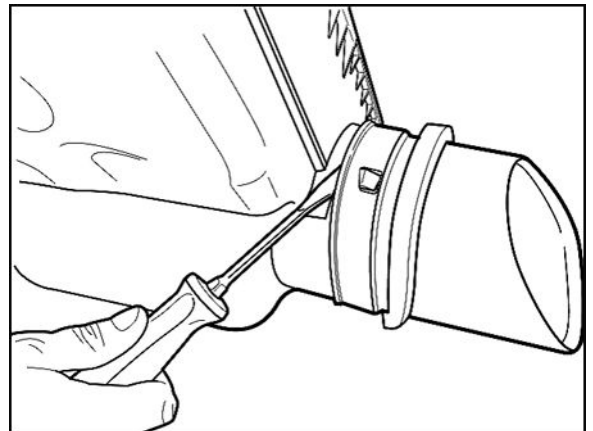
1	Air Flow Accelerator
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- G. Install the new air cleaner case using the new bolts that are pre-installed.

- (1) Use a flat blade screwdriver to unclip and discard the air inlet flow accelerator from the air cleaner case.
- (2) The inlet to the case is inserted into and snaps to the air flow accelerator.
- (3) Once the two parts are snapped together push the air flow accelerator further through the panel so the bolt holes line up.

Torque: 5.0 N*m (51 kgf*cm, 44 in*lbf)

Figure 5. Inlet Flow Accelerator

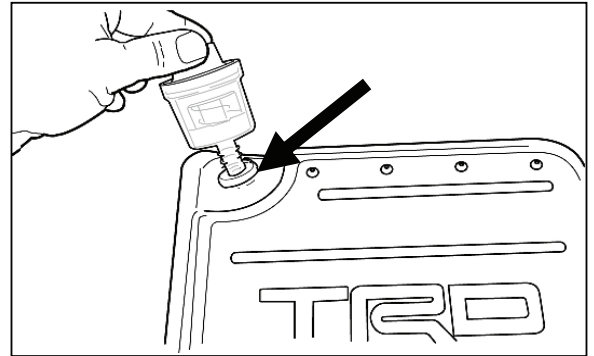


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Repair Procedure (Continued)

3. Install the Air Filter, Air Box Lid and Air Inlet Tube. **Figure 6.**

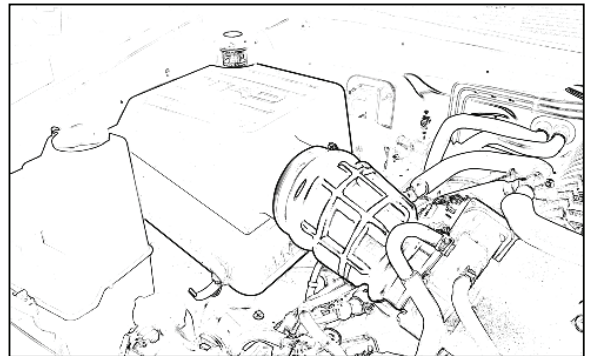
- A. Place the hose clamps on each end of the air inlet tube. Leave the clamps loose for now.
- B. Install the Filter Minder by inserting the grommet into the air box top, making sure the groove in the grommet is lined up with the air box cover surface (Figure 6).
- C. Lubricate the filter Minder barbed end and push into the grommet (Figure 6).
- D. Place the TRD supplied air filter in the air box base.



- E. Clip the supplied air box (Figure 7). Position the inlet hose so that it is in a natural position and tighten the hose clamps.

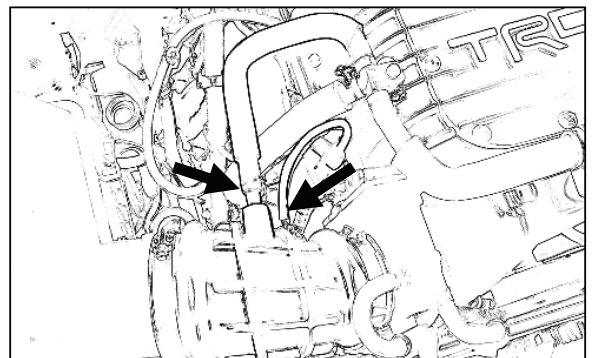
Torque: 4 N*m (41 kgf*cm, 35 in*lbf)

Figure 7.



- F. Connect the vent hose and fuel pressure regulator hose to the air inlet tube (Figure 7).

Figure 8.



- G. Plug in the mass airflow (MAF) sensor and clip the harness to the air box lid.

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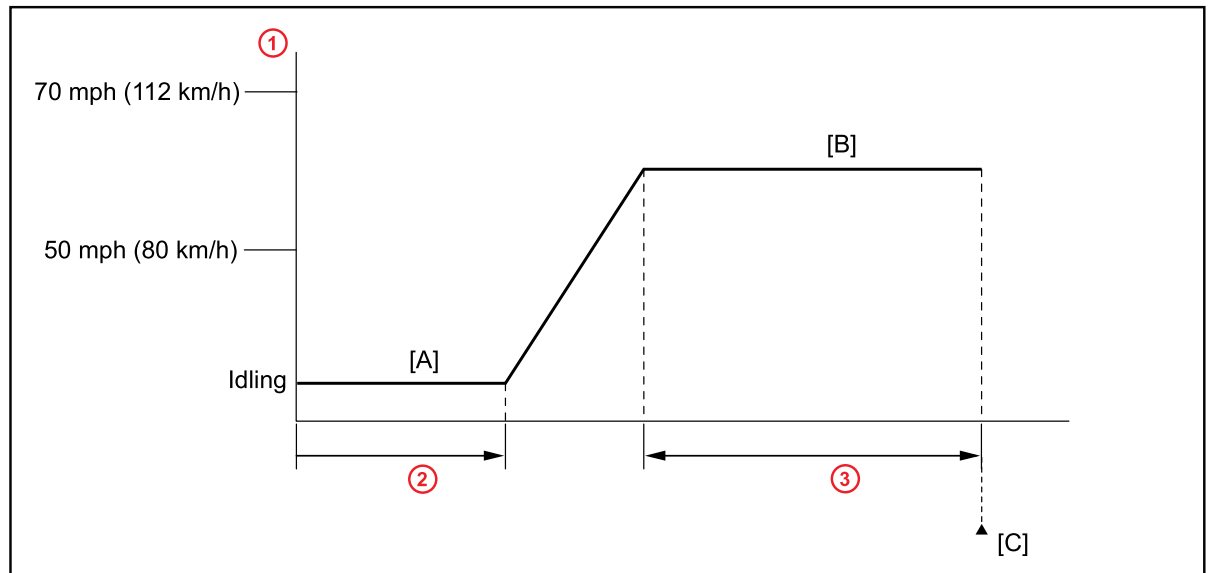
Repair Procedure (Continued)

4. Confirm the repair.
 - A. Connect Techstream to DLC3.
 - B. Turn the ignition switch to ON.
 - C. Clear DTCs (even if no DTCs are stored, perform the clear DTC operation).
 - D. Turn the ignition switch OFF and wait for at least 30 seconds.
 - E. Start the engine and warm it up until the engine coolant temperature reaches 158° F (70° C) or higher. Refer to the confirmation drive pattern below, section [A].
 - F. Drive the vehicle at approximately 50 mph (80 km/h) to 70 mph (112 km/h) for 5 minutes or more. Refer to confirmation drive pattern below, section [B].

HINT
Keep engine load as stable as possible while driving.

- G. Confirm there are no Pending or Current DTCs present.

Figure 9.



1	Vehicle Speed
2	Warming Up

3	5 Minutes or More
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