

MIL ON With DTC P05A074

Service Category Engine/Hybrid System

Section Cooling

Market USA and Mexico

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2020	Avalon HV	
2018 - 2020	Camry HV	

Introduction

Some 2018 – 2020 model year Camry Hybrid and 2019 – 2020 model year Avalon Hybrid vehicles equipped with a A25A-FXS engine may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P05A074 (Active Grill Air Shutter “A” Actuator Slipping). To address these concerns an updated radiator shutter sub-assembly was developed. Follow the Repair Procedure in this bulletin to address this condition.

MIL ON With DTC P05A074

Table of Contents

- [Warranty Information](#)3
 - [For USA Market](#)3
 - [For Mexico Market](#)3
- [Parts Information](#)3
 - [For USA and Mexico Markets](#).....3
- [Required Tools & Equipment](#)4
- [Repair Procedure](#)5

MIL ON With DTC P05A074

Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1927	R & R the Active Grille Shutter Assy	1.6	53019-*****	8A	40

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY (USA)

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 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.

For Mexico Market

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1927	R & R the Active Grille Shutter Assy	1.6	53019-*****	8A	40

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY (MEXICO)

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect or 36 months or 60,000 kilometers, 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

For USA and Mexico Markets

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
53019-06021	53019-33042	Shutter Sub-assy, Radiator	1

MIL ON With DTC P05A074

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2022.04.004.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or 01-55-50103041 (Mexico).
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	DCA-8000P I	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335 (USA) or 01-800-504-5330 (Mexico).

MIL ON With DTC P05A074

Repair Procedure

1. Confirm the condition exists.
Using Techstream, check for stored DTCs.
Is DTC P05A074 (Active Grill Air Shutter “A” Actuator Slipping) present?
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
2. Read the freeze frame data for DTC P05A074.
3. Is the vehicle speed greater than 75mph/120kmh?
 - **YES** — Continue to step 4.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 1. Vehicle Speed

Confirmed FFD

Pending FFD

Short

Parameter	Unit	-1.376(s)	-0.885(s)	-0.377(s)	0(s)	+0.115(s)
Total Distance Traveled		7785	7785	7785	7785	7785
Total Distance Traveled - Unit	mile	mile	mile	mile	mile	mile
Key Cycle		1003	1003	1003	1003	1003
Elapsed Time	ms	45023	45514	46022	46399	46514
Vehicle Speed	MPH	0	0	0	0	0
Engine Speed	rpm	1128	1117	1130	1125	1124
Calculate Load	%	26.6	26.5	26.6	26.3	26.2
Vehicle Load	%	22.7	22.7	22.3	22.3	22.3
Mass Air Flow Sensor	gm/sec	6.25	6.18	6.21	6.14	6.20
Atmospheric Pressure	psi(gauge)	-0	-0	-0	-0	-0
Intake Manifold Absolute Pressure	psi	4.72	4.72	4.75	4.69	4.76
Intake Manifold Absolute Pressure Supported	Supp	Supp	Supp	Supp	Supp	Supp
Engine Oil Temperature Sensor	F	27	27	27	27	27
Coolant Temperature	F	43	45	45	45	45
Intake Air Temperature	F	25	25	25	25	25
Ambient Temperature	F	25	25	25	25	25
Engine Run Time	sec	43	44	44	44	45
IG-ON Coolant Temperature	F	24.1	24.1	24.1	24.1	24.1
Initial Engine Coolant Temperature	F	24.1	24.1	24.1	24.1	24.1
IG-ON Intake Air Temperature	F	23.0	23.0	23.0	23.0	23.0
Initial Engine Intake Air Temperature	F	23.0	23.0	23.0	23.0	23.0
Battery Voltage	V	13.9	13.9	13.9	13.9	13.9
BATT Voltage	V	14.091	14.150	14.165	14.155	14.135

Sort

Expand>>

TIS Keyword

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All Data

☐ Sort A to Z

☐ Sort by Variable Item

4. Using Techstream, perform Utility (Grill Shutter Control Mode Switching) and then the Active Test (Shutter Closing Operation Lock Detection and Shutter Opening Operation Lock Detection).

Refer to TIS, applicable model and model year Repair Manual:

- [2018](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P05A074; Active Grille Air Shutter “A” Actuator Slipping”
- [2019 – 2020](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P05A074; Active Grille Air Shutter “A” Actuator Slipping”
- [2019 – 2020](#) Avalon Hybrid:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P05A074; Active Grille Air Shutter “A” Actuator Slipping”

MIL ON With DTC P05A074

Repair Procedure (continued)

5. Was the active test OK?
 - **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
 - **NO** — Continue to step 6.
6. Remove the radiator shutter sub-assembly.
Refer to TIS, applicable model and model year Repair Manual:
 - [2018 – 2020](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Removal”
 - [2019 – 2020](#) Avalon Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Removal”
7. Remove the swing grille actuator assembly from the radiator shutter sub-assembly.
Refer to TIS, applicable model and model year Repair Manual:
 - [2018 – 2020](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Disassembly”
 - [2019 – 2020](#) Avalon Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Disassembly”
8. Install the swing grille actuator assembly to the NEW radiator shutter sub-assembly.
Refer to TIS, applicable model and model year Repair Manual:
 - [2018 – 2020](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Reassembly”
 - [2019 – 2020](#) Avalon Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Reassembly”
9. Install the NEW radiator shutter sub-assembly.
Refer to TIS, applicable model and model year Repair Manual:
 - [2018 – 2020](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Installation”
 - [2019 – 2020](#) Avalon Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Installation”

MIL ON With DTC P05A074

Repair Procedure (continued)

10. Initialize the grille shutter system after replacing the radiator shutter sub-assembly.
Refer to TIS, applicable model and model year Repair Manual:
 - [2018 – 2020](#) Camry Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Initialization”
 - [2019 – 2020](#) Avalon Hybrid:
Engine/Hybrid System – Engine Control – “Exterior Panels / Trim: Grille Shutter: Initialization”
11. Test-drive the vehicle to confirm the MIL ON condition does NOT return and that vehicle is operating properly.