

Engine Maintenance Required Message with DTC(s) P268111 and/or P268115

Service Category Engine/Hybrid System

Section Cooling

Market USA and Mexico

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2021	Avalon HV, Corolla, Corolla Hatchback, RAV4, RAV4 HV	
2021	Avalon, RAV4 Prime, Sienna HV, Venza HV	
2018 - 2021	Camry, Camry HV	
2020 - 2021	Highlander HV	

REVISION NOTICE

January 07, 2025 Rev1:

- The Parts Information and Repair Procedure sections have been updated.
- Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2018 – 2021 model year Toyota vehicles equipped with an A25A-FKS, A25A-FXS, or M20A-FKS engine may exhibit a condition in which an “Engine Maintenance Required” message is displayed in the Multi-Information Display (MID). Additionally, the vehicle will exhibit DTC(s) P268111 (Engine Coolant Bypass Valve Circuit Short to Ground) and/or P268115 (Engine Coolant Bypass Valve Circuit Short to Battery or Open). Follow the Repair Procedure in this bulletin to address this condition.

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Warranty Information

NOTE

Refer to Campaign Publication [24TE04](#) for warranty applicability and claim filing instructions.

Parts Information

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Corolla Corolla Hatchback	16671-F2010	16671-F2030	Valve, Water	1
Avalon Camry RAV4	16260-F0010	16260-F0300	Hose Assy, Water By-Pass, No. 1	1
Avalon HV Camry HV RAV4 HV RAV4 Prime Venza HV	16260-F0021	16260-F0310		
Highlander HV Sienna HV	16260-F0100	16260-F0330		
Sienna HV (Mexico Spec)	16260-F0140	16260-F0340		
All	00272-SLLC2		Coolant – Super Long Life	1

NOTE

Parts are vehicle specific. Do NOT order ALL parts listed in this table.

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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 2024.04.004.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

Repair Procedure

1. Confirm the condition exists.
Is the “Engine Maintenance Required” message displayed in the MID?
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
2. Using GTS+, perform a Health Check and inspect for ANY of the following DTCs:
 - P268111 – Engine Coolant Bypass Valve Circuit Short to Ground
 - P268115 – Engine Coolant Bypass Valve Circuit Short to Battery or Open
Does this vehicle contain ANY of the above listed DTCs?
 - **YES** — Continue to step 3.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
3. Is the vehicle a Corolla or a Corolla Hatchback?
 - **YES** — Go to step 5.
 - **NO** — Continue to step 4.

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Repair Procedure (continued)

4. Is the vehicle an Avalon, Avalon HV, Camry, Camry HV, Highlander HV, RAV4, RAV4 HV, RAV4 Prime, Sienna HV, or a Venza HV?
 - **YES** — Go to step 6.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

5. Remove and replace the water valve.
 - A. Remove the water valve.
 Refer to TIS, applicable model and model year Repair Manual:
 - [2019](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
 - [2020 \(01/2019 – 03/2019\)](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
 - [2020 \(03/2019 – 09/2019\)](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
 - [2020 \(09/2019 – 04/2020\)](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
 - [2021 \(04/2020 – 06/2020\)](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
 - [2021 \(06/2020 – 09/2020\)](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
 - [2021 \(09/2020 – 06/2021\)](#) Corolla and Corolla Hatchback:
Engine / Hybrid System – M20A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal

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Repair Procedure (continued)

B. Install the NEW water valve.

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

- [2019 \(06/2018 – 01/2019\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*
- [2020 \(01/2019 – 03/2019\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*
- [2020 \(03/2019 – 09/2019\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*
- [2020 \(09/2019 – 04/2020\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*
- [2021 \(04/2020 – 06/2020\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*
- [2021 \(06/2020 – 09/2020\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*
- [2021 \(09/2020 – 06/2021\)](#) Corolla and Corolla Hatchback:
*Engine / Hybrid System – M20A-FKS (Cooling) –
Flow Shutting Valve (for Heater) – Installation*

C. Go to step 7.

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Repair Procedure (continued)

6. Remove and replace the water bypass valve hose assembly No. 1.

A. Remove the water bypass valve hose assembly No. 1.

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

- [2021](#) Avalon:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2019](#) / [2020](#) / [2021](#) Avalon HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2018](#) / [2019](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2020 \(09/2019 – 03/2020\)](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2020 \(03/2020 – 10/2020\)](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2021](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2018](#) / [2019](#) / [2020](#) / [2021](#) Camry HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2020](#) / [2021](#) Highlander HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal

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Repair Procedure (continued)

- [2019 \(11/2018 – 02/2019\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2019 \(02/2019 – 10/2019\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2020 \(10/2019 – 01/2020\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2020 \(01/2020 – 06/2020\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2020 \(06/2020 – 08/2020\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2021](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Removal
- [2019 \(11/2018 – 02/2019\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2019 \(02/2019 – 10/2019\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2020 \(10/2019 – 01/2020\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2020 \(01/2020 – 06/2020\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2020 \(06/2020 – 08/2020\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2021](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- [2021](#) RAV4 Prime:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal

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Repair Procedure (continued)

- [2021](#) Sienna HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
 - [2021](#) Venza HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Removal
- B. Install the NEW water bypass valve hose assembly No. 1.
Refer to TIS, applicable model and model year Repair Manual:
- [2021](#) Avalon:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
 - [2019](#) / [2020](#) / [2021](#) Avalon HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
 - [2018](#) / [2019](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
 - [2020 \(09/2019 – 03/2020\)](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
 - [2020 \(03/2020 – 10/2020\)](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
 - [2021](#) Camry:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
 - [2018](#) / [2019](#) / [2020](#) / [2021](#) Camry HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
 - [2020](#) / [2021](#) Highlander HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation

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Repair Procedure (continued)

- [2019 \(11/2018 – 02/2019\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
- [2019 \(02/2019 – 10/2019\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
- [2020 \(10/2019 – 01/2020\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
- [2020 \(01/2020 – 06/2020\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
- [2020 \(06/2020 – 08/2020\)](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
- [2021](#) RAV4:
Engine / Hybrid System – A25A-FKS (Cooling) – Flow Shutting Valve (for Heater) – Installation
- [2019 \(11/2018-02/2019\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2019 \(02/2019-10/2019\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2020 \(10/2019-01/2020\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2020 \(01/2020-06/2020\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2020 \(06/2020-08/2020\)](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2021](#) RAV4 HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2021](#) RAV4 Prime:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation

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Repair Procedure (continued)

- [2021](#) Sienna HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation
- [2021](#) Venza HV:
Engine / Hybrid System – A25A-FXS (Cooling) – Flow Shutting Valve – Installation

C. Continue to step 7.

7. Using GTS+, clear ANY DTCs and test-drive the vehicle to confirm the condition has been resolved.