

Service Category	Engine/Hybrid System		
Section	Engine Mechanical	Market USA	Toyota Supports

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023	Camry	

Introduction

Some 2023 model year Camry vehicles equipped with an A25A-FKS engine may exhibit a condition in which a popping noise is present when the engine is running. Follow the Repair Procedure in this bulletin to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT DRIVE		PRODUCTION CHANGE EFFECTIVE VIN
	ТММК1 Serial Numbers 000001 – 499999	2WD	4T1F11AK#PU156299
			4T1C11AK#PU156299
			4T1H11AK#PU156299
Comru			4T1R11AK#PU156299
Camry			4T1K61AK#PU156299
			4T1T11AK#PU156299
			4T1G11AK#PU156299
			4T1S11AK#PU156299

Production Change Information (continued)

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN	
			4T1F11BK#PU100796	
	TMMK1 Serial Numbers 000001 – 499999		4T1H11BK#PU100796	
		AWD	4T1C11BK#PU100796	
			4T1R11BK#PU100796	
			4T1K61BK#PU100796	
			4T1G11BK#PU100796	
			4T1S11BK#PU100796	
Comru			4T1T11BK#PU100796	
Camry	TMMK2 Serial Numbers 500000 – 999999	2WD	4T1F11AK#PU806460	
			4T1R11AK#PU806460	
			4T1H11AK#PU806460	
			4T1C11AK#PU806460	
			4T1K61AK#PU806460	
			4T1G11AK#PU806460	
			4T1T11AK#PU806460	
			4T1S11AK#PU806460	

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG2304	R & R Cylinder Head				
Combo J	Add: ABS	*	11101-#####**	91	50
Combo L	Add: Air Conditioning				

*See the Flat Rate Manual.

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

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 DESCRIPTION	QTY
11101-29627	Head Sub-assy, Cylinder	
17173-F0010	Gasket, Exhaust Manifold to Head	
22271-F0010	Gasket, Throttle Body	1
17171-25010	Gasket, Intake Manifold to Head, No. 1	1
90301-92005	Ring, O (for Cam Timing Control Motor)	1
11193-F0010	11193-F0010 Gasket, Spark Plug Tube	
11115-F0010	Gasket, Cylinder Head	1
11213-25020	Gasket, Cylinder Head Cover	1
90910-02201	B Bolt (for Cylinder Head Set)	6
90910-02202	A Bolt (for Cylinder Head Set)	4
00295-00103	Toyota Seal Packing	1
00272-SLLC2	Super Long Life Coolant	As Needed

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*		TSADVUNIT	
Techstream 2.0			4
Techstream Lite	ADE	TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2023.02.001.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Confirm the condition exists.

Is there a popping noise present when the engine is running?

- YES Continue to step 2.
- **NO** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Inspect the cylinder head for machine markings.
 - A. Leaning into the engine bay, towards the bulkhead side, use a phone or borescope to point the camera to see the backside of the engine.

NOTE

Focus on the middle of the head casting, just above the exhaust manifold.

B. Make the water-jacket plug the reference point for the machine markings location.

NOTE

The water-jacket plug is located on the middle of the head casting, just above the exhaust manifold.

Figure 1. Engine Bay



Area of Focus (for Phone or Borescope)

1

Repair Procedure (continued)

C. Verify the machine number markings drilled into the casting, using the water-jacket plug as the starting point of reference.

NOTE

The markings will appear just below the water-jacket plug in the form of drilled dots.

D. Locate the leftmost casting rib as shown in Figures 2 and 3.

Is there more than one dot located to the left of the leftmost casting rib?

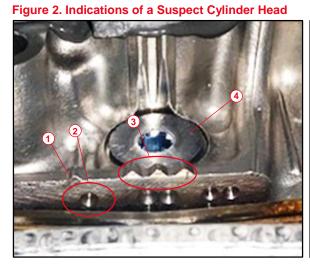
• **YES** — This bulletin does NOT apply.

Continue diagnosis using the applicable Repair Manual.

• **NO** — Continue to step 3.

NOTE

Some dots may be smaller or drilled lighter than others.



1	Left Side: One Casting Rib
2	One Marking Present
3	Right Side: Three Casting Ribs
4	Water-jacket Plug





More Than One Marking Present

1

Repair Procedure (continued)

- 3. Replace the cylinder head sub assembly.
 - A. Remove the cylinder head sub assembly.
 - Refer to TIS, applicable model and model year Repair Manual:
 - <u>2023</u> Camry: *Engine/Hybrid System – Engine Mechanical –* "A25A-FKS (Engine Mechanical): Cylinder Head Gasket: Removal"
 - B. Disassemble the cylinder head sub assembly.
 Refer to TIS, applicable model and model year Repair Manual:
 - <u>2023</u> Camry: *Engine/Hybrid System – Engine Mechanical –* "A25A-FKS (Engine Mechanical): Cylinder Head: Disassembly"
 - C. Transfer ALL valve spring retainers, ALL springs, and ALL valves, from the old cylinder head onto the NEW cylinder head.

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

- <u>2023</u> Camry: Engine/Hybrid System – Engine Mechanical – "A25A-FKS (Engine Mechanical): Cylinder Head: Reassembly"
- D. Install the NEW cylinder head sub assembly.

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

• <u>2023</u> Camry:

Engine/Hybrid System – Engine Mechanical – "A25A-FKS (Engine Mechanical): Engine Unit: Reassembly"

4. Test-drive the vehicle to confirm the condition no longer exists.