

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?

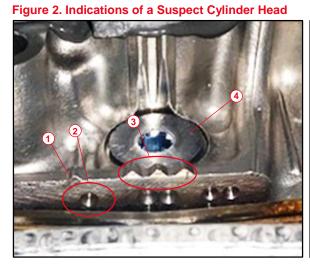
• **YES** — This bulletin does NOT apply.

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.