

Coolant Leak From Rear of Engine - Water Outlet Pipe Joint Misalignment

Service Category Engine/Hybrid System

Section Cooling **Market** USA and Mexico



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2022	Tacoma	

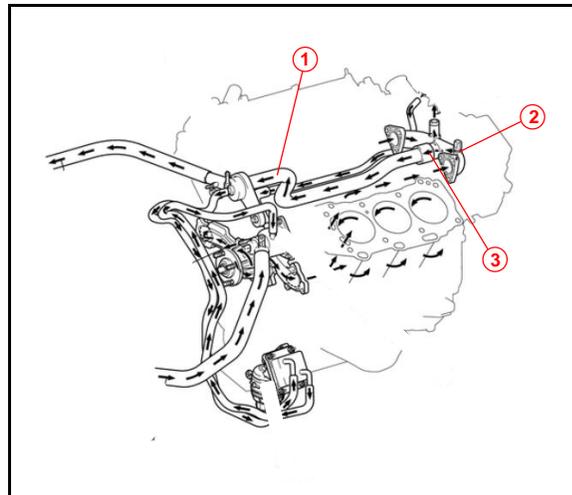
Introduction

Some 2022 model year Tacoma vehicles may exhibit a coolant leak, coolant dripping onto the ground, or high engine coolant temperature. The coolant leak may occur from the rear of the engine and drip down the transmission bell housing. Upon further inspection, coolant may be leaking from the union between the Rear Water By-Pass Joint and the No.1 Water Outlet Pipe (see Figure 1). Follow the Repair Procedure in this bulletin to address this condition.

NOTE

This bulletin ONLY applies to Tacoma vehicles with 2GR-FKS engines.

Figure 1.



1	No. 1 Water Outlet Pipe
2	Rear Water By-pass
3	Leak Point

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Production Change Information

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

MODEL	PLANT	ENGINE	PRODUCTION CHANGE EFFECTIVE ENGINE NUMBER
Tacoma	TMMAL	2GR-FKS	P750596
			This Bulletin Applies ONLY to "P" Serial Engines

Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1926	Recenter the Water Outlet Pipe	1.7	16332-0P010	64	57

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
EG1926	Recenter the Water Outlet Pipe	1.7	16332-0P010	64	57

APPLICABLE WARRANTY (MEXICO)

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 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.

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Parts Information

For USA and Mexico Markets

PART NUMBER	PART NAME	QTY
16332-0P010	Pipe, Water Outlet, No.1	*
16356-31051	Joint, Water By-pass, RR	*
96762-35030	Ring, O	*
17176-31130	Gasket, Air Surge Tank to Intake Manifold	1
17177-0P030	Gasket, Intake Manifold to Head, No.1	1

*These service parts are for reference ONLY. In most cases, parts replacement will not be necessary.

Required Tools & Equipment

REQUIRED TOOLS & MATERIAL	QUANTITY
Cooling System Pressure Tester	1

Repair Procedure

1. Remove the intake manifold.

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

- 2022 Tacoma:
Engine/Hybrid System – Intake/Exhaust – [“2GR-FKS \(Intake\): Intake Manifold: Removal”](#)

NOTE

Do NOT disconnect fuel connections.

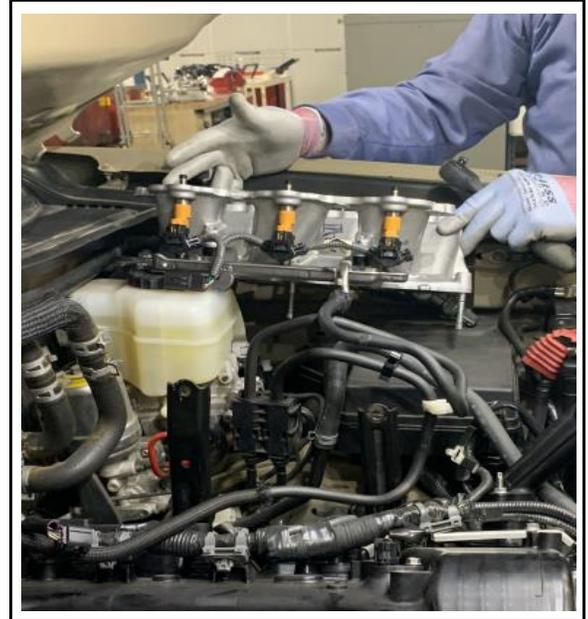
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Repair Procedure (continued)

2. Rotate the intake manifold assembly upside down, so the low-pressure injector nozzle tips are facing up as shown. Then move the assembly to the side of the engine bay.

NOTICE
Use caution to avoid damage to the injectors and intake assembly.

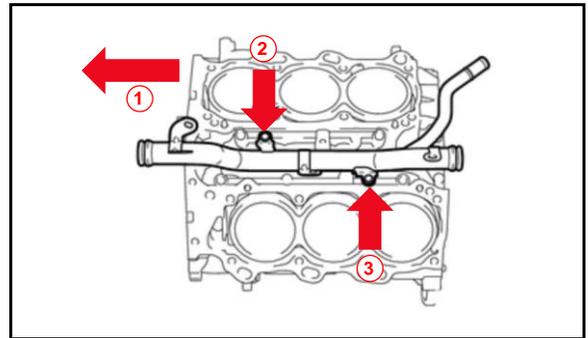
Figure 2.



3. Remove the two bolts that hold the water outlet tube assembly to the block.

NOTE
A magnetic socket is useful when removing the bolts to prevent them from being dropped

Figure 3.



1	Front
2	No. 1 (Front) Bolt
3	No. 2 (Rear) Bolt

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Repair Procedure (continued)

4. Reposition the water outlet pipe for proper alignment to the water joints:

Using a large screwdriver or by hand, move the water outlet pipe assembly back and forth (toward the bulkhead, then toward the front of the vehicle, and then again toward the bulkhead).

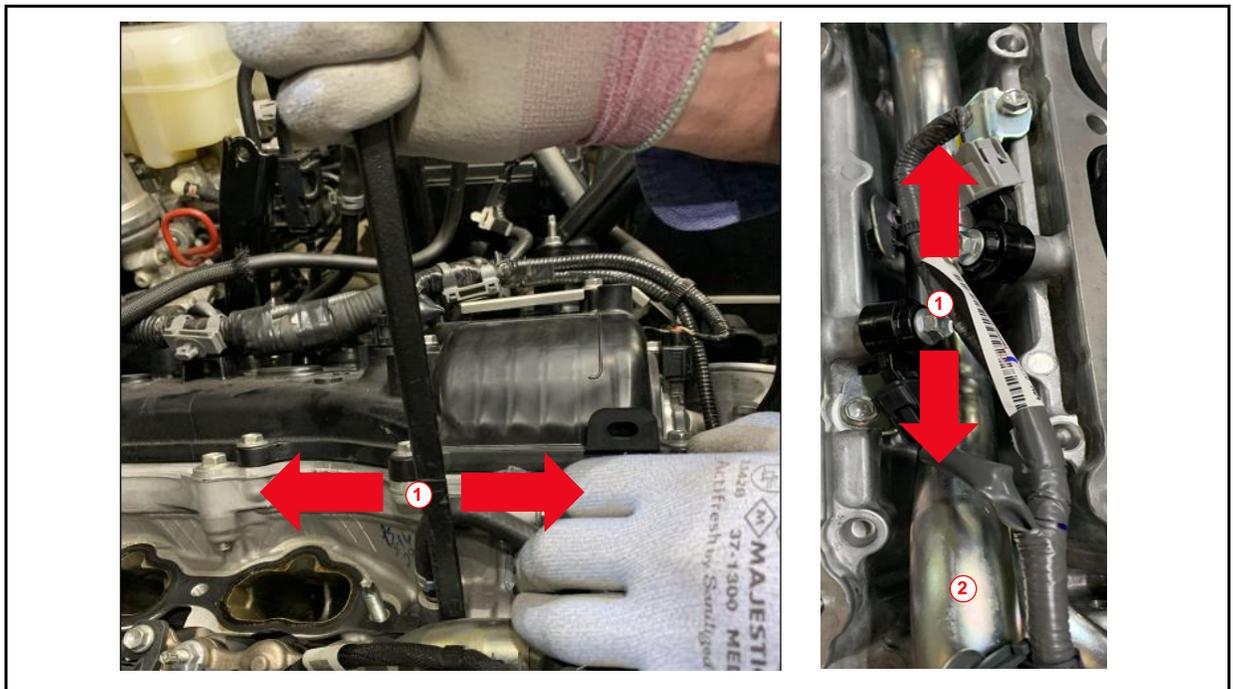
NOTICE

Use caution to **NOT** damage the HP fuel pipe assembly or wire harness.

NOTE

- This back-and-forth motion effectively allows the heater pipe to find its natural alignment to the water joint openings and reseats the O-rings simultaneously.
- The O-ring is **NOT** able to be inspected using this method. O-ring damage is not likely to occur as a result of joint misalignment.

Figure 4.



1	Move Heater Pipe in Front/Rear Direction 3 – 4 times and Retighten
2	Outlet Pipe

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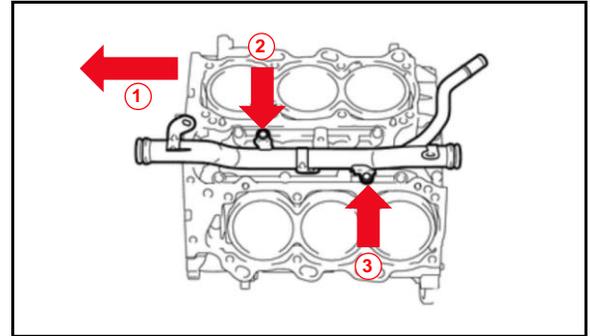
Repair Procedure (continued)

5. Install the two outlet pipe bolts and torque to specification (7 ft./lb.).

HINT

Start with the No. 1 (front) bolt, and then move to the No. 2 (rear) bolt.

Figure 5.



1	Front
2	No. 1 (Front) Bolt
3	No. 2 (Rear) Bolt

6. With the intake still removed, perform a cooling system pressure test, and confirm no leaks are present at the front or rear water joints.

Is a coolant leak still present?

- **YES** — The leak may be due to an issue not related to outlet pipe misalignment. This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to the next step.

Figure 6.



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Repair Procedure (continued)

7. Reassemble the remaining parts in reverse process.
Refer to TIS, applicable model and model year Repair Manual:
 - 2022 Tacoma:
Engine/Hybrid System – Intake/Exhaust – [“2GR-FKS \(Intake\): Intake Manifold: Installation”](#)

8. Confirm ALL bolts are torqued to specification and replace nonreusable parts.

9. Drive the vehicle to allow the engine to reach normal operating temperature.

10. Confirm NO leaks are present at operating temperature.