

Knocking Noise From Fuel Tank Area

Service

Category Engine/Hybrid System

Section Fuel System Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2016 - 2019	RX350		

Introduction

Some 2016 – 2019 model year RX350 and 2018 – 2019 model year RX350L vehicles may exhibit a knocking noise from the fuel tank area at idle, vehicle stationary, with a full tank of gasoline. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1813	Install Valve Assembly and Charcoal Canister Plate R & R Fuel Tank Protector and Exhaust Gaskets	1.0	77404-0E050	91	52

APPLICABLE WARRANTY

- This repair is covered under the Lexus Basic Warranty. This warranty is in effect for 48 months or 50,000 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.

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Parts Information

PART N	JM BER	PART NAME	
PREVIOUS	NEW		
77606-0E050 77606-0E040	77606-48160	Protector Sub-assy, Fuel Tank	
90917-06072 90917-06090		Gasket, Exhaust Pipe	1 – 2*
N/A	77720-48060	Valve Assy, Fuel Outlet	1
N/A	77743-48020	Plate, Charcoal Canister, No. 1	

^{*}Qty 2 for RX350 (two row) vehicles and Qty 1 for RX350L (three row) vehicles.

Required Tools & Equipment

REQUIRED TOOLS & MATERIAL	PART NUMBER	QTY	
Nitto Tape*	360UL	1	

NOTE

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a knocking noise from the fuel tank area at idle, vehicle stationary, with a full tank of gasoline?

- YES Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

^{*} Nitto Tape is located in the unusual interior noise (UIN) kit (PN 08231-00801), which is stocked by most dealers. Check the UIN kit for Nitto Tape BEFORE ordering.

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Repair Procedure (continued)

2. Confirm if the vehicle has the NEW pulsation damper valve assembly installed.

NOTE

The NEW part can be identified by the addition of a bracket and valve assembly attached to the charcoal canister.

Does the vehicle have the NEW pulsation damper valve assembly installed?

- YES This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- NO Continue to step 3.

Figure 1. Without Pulsation Damper Valve Assembly Installed

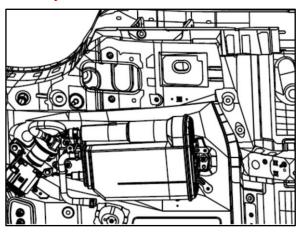
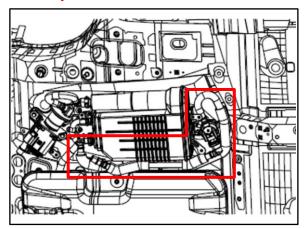


Figure 2. With Pulsation Damper Valve Assembly Installed



- 3. Remove the tail exhaust pipe assembly and the charcoal canister protector. Refer to TIS, applicable model and model year Repair Manual:
 - 2016 / 2017 / 2018 / 2019 RX350:
 Engine/Hybrid System Emission Control "2GR-FKS Emission Control: Canister: Removal"
- 4. Remove the front center floor cover and the No. 1 fuel tank protector sub-assembly. Refer to TIS, applicable model and model year Repair Manual:
 - 2016 / 2017 / 2018 / 2019 RX350:
 Engine/Hybrid System Fuel System "2GR-FKS Fuel: Fuel Tank: Removal"

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Repair Procedure (continued)

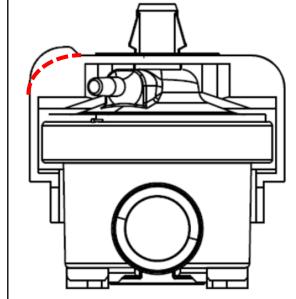
5. Disconnect the fuel tank vent hose sub-assembly. Refer to TIS, applicable model and model year Repair Manual:

• 2016 / 2017 / 2018 / 2019 RX350: Engine/Hybrid System – Emission Control – "2GR-FKS Emission Control: Canister: Removal"

6. To provide adequate clearance to the NEW bracket, trim the NEW pulsation damper valve as shown.

Figure 3.

Figure 4.



- 7. Ensure clearance between the valve and bracket BEFORE proceeding to the next step.
- 8. Install the NEW bracket to the charcoal canister.
 - A. Remove the nut from the front of the charcoal canister.
 - B. Install the bracket on the stud.
 - C. Tighten the nut and valve assembly plate into place.

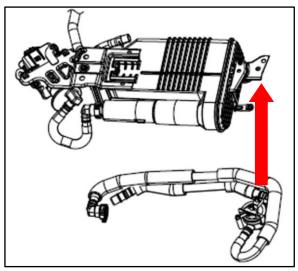
Torque: 5.5 N*m (56 kgf*cm, 49 in*lbf)

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Repair Procedure (continued)

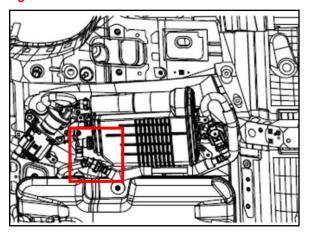
 Install the NEW pulsation damper valve assembly onto the NEW bracket.
 Push both retaining clips of valve assembly through the two holes on the bracket.

Figure 5.



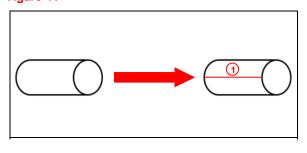
10. Connect the NEW pulsation damper valve assembly between the fuel tank vent hose assembly and the charcoal canister.

Figure 6.



11. Cut the two reflect sleeves as shown.

Figure 7.



1 Cut Location

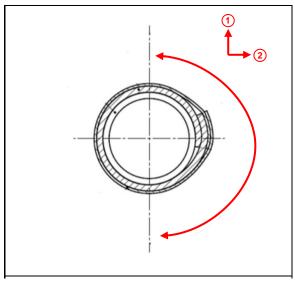
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Repair Procedure (continued)

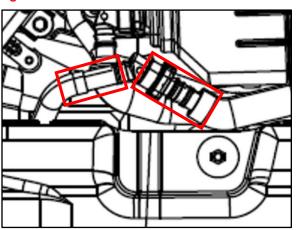
12. Wrap the two reflect sleeves around each of the vent tube connections and tape them into place as shown in Figures 8 and 9.

Figure 8.



1	RH
2	Up

Figure 9.

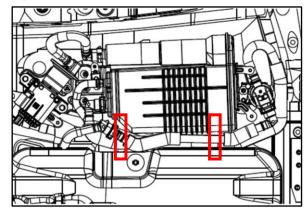


13. Using the zip ties supplied, tie the NEW pulsation damper valve assembly to the purge line as shown by doubling the zip ties together for each location.

NOTE

Double or connect the zip ties to create enough length to secure the assembly.

Figure 10. Zip-Tie Locations



14. Trim the excess zip-tie tail between 3 mm – 5 mm.

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Repair Procedure (continued)

- 15. Install the No. 1 fuel tank protector sub-assembly and the front center floor cover. Refer to TIS, applicable model and model year Repair Manual:
 - 2016 / 2017 / 2018 / 2019 RX350:
 Engine/Hybrid System Fuel System "2GR-FKS Fuel: Fuel Tank: Installation"
- 16. Install the charcoal canister protector and the tail exhaust pipe assembly. Refer to TIS, applicable model and model year Repair Manual:
 - 2016 / 2017 / 2018 / 2019 RX350:
 Engine/Hybrid System Emission Control "2GR-FKS Emission Control: Canister: Installation"
- 17. Make sure the vehicle has a full tank of gasoline and start the engine.
- 18. At idle, vehicle stationary, confirm the knocking noise is no longer present.