

Audible Cayenne Fuel Tank Rattle

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Cayenne	2018 - 2021	9YAAA1, 9YAAE1, 9YABB1, 9YACF1, 9YACH1	N/A	N/A

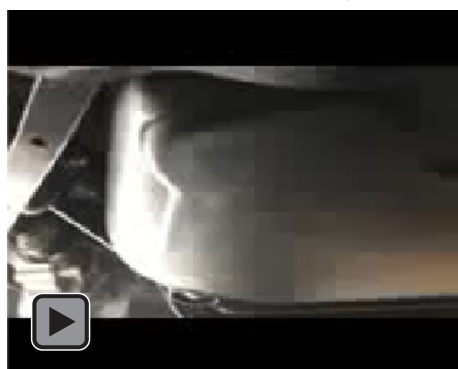
Revision History

Revision	Release Date	Changes
0	April 13, 2020	Original document

Condition

An audible rattle or ticking noise emanating from the vehicle's lower right rear in the 10Hz frequency range. This noise is particularly noticeable under idle engine conditions when the vehicle is stationary or travelling at low speeds. The noise occurs when the tank vent valve is operating. In the most prominent cases, the issue is especially apparent when:

- The level in the fuel tank is between one-half to completely full.
- Drive is selected with a gear engaged and the brake applied with low load at idle engine speed.
- The air-conditioning is running low.
- The tank vent valve operates at a duty-cycle of 30% or greater.



Video 1

In order to play this video, you need to enable "playing of 3D content" under 3D & Multimedia in the preference settings (Edit) of Adobe Acrobat.

Technical Background

Operation of the tank vent valve to vacate the active charcoal filter causes pressure reverberations, exciting the flap of the anti-spitback valve, which can cause this noise.

Service Information

The digital noise file attached herein is an example of the noise, and assists in diagnosis through comparison. A fix requiring replacement of the fuel tank is scheduled for release in 2020. If the complaint aligns with this TI, then no further repair is presently available. As soon as the anticipated repair becomes available, this bulletin will change to reflect the suggested repair.

Warranty

As always, please document the case completely in PQIS.

For this repair, please code the "cause" as follows:

Cause location:	20100	Fuel tank
Cause symptom:	1817	Loose

Search Items

E3, fuel tank, rattle, rattling, ticking, tank vent valve, Cayenne, 9YA , anti-spitback valve

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.
