

# Part 573 Safety Recall Report

## 22V-155

**Manufacturer Name :** Volkswagen Group of America, Inc.

**Submission Date :** DEC 21, 2022

**NHTSA Recall No. :** 22V-155

**Manufacturer Recall No. :** 20DN



### Manufacturer Information :

**Manufacturer Name :** Volkswagen Group of America, Inc.

**Address :** 3800 Hamlin Road  
Auburn Hills MI 48326

**Company phone :** 1-800-893-5298

### Population :

**Number of potentially involved :** 47,238

**Estimated percentage with defect :** 1 %

### Vehicle Information :

**Vehicle 1 :** 2020-2021 Audi S7

**Vehicle Type :**

**Body Style :**

**Power Train :** NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

S7 1,116

**Production Dates :** OCT 22, 2019 - MAY 05, 2021

**VIN Range 1 : Begin :** WAUPFAF25LN012483 **End :** WAUSFBF20MN090512 ☒ Not sequential

Vehicle 2 : 2020-2021 Audi S6 SEDAN

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

S6 SEDAN 1,459

**Production Dates :** OCT 22, 2019 - MAY 18, 2021

**VIN Range 1 :** Begin : WAUFFAF27LN014120 End : WAUFFAF25MN094602 ☒ Not sequential

Vehicle 3 : 2021-2021 Audi RS7

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

RS7 1,353

**Production Dates :** JUL 24, 2020 - MAY 27, 2021

**VIN Range 1 :** Begin : WUAPCBF2XMN900040 End : WUAPCBF21MN909807 ☒ Not sequential

Vehicle 4 : 2021-2021 Audi RS6 AVANT

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

RS6 AVANT 1,501

Production Dates : JUL 24, 2020 - MAY 31, 2021

VIN Range 1 : Begin : WUA1CBF24MN900041 End : WUA1CBF26MN909873 ☒ Not sequential

Vehicle 5 : 2019-2021 Audi A7

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

A7 8,295

Production Dates : JUL 27, 2018 - MAY 27, 2021

VIN Range 1 : Begin : WAUV2AF2XMN014086 End : WAUU2AF26MN095387 ☒ Not sequential

Vehicle 6 : 2019-2021 Audi A6 SEDAN

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

A6 SEDAN 30,351

**Production Dates :** AUG 07, 2018 - MAY 27, 2021

**VIN Range 1 :** Begin : WAUM2AF25KN014098 End : WAUL2AF29MN095265 ☒ Not sequential

Vehicle 7 : 2020-2021 Audi A6 ALLROAD

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

A6 ALLROAD 1,714

**Production Dates :** NOV 05, 2019 - MAY 27, 2021

**VIN Range 1 :** Begin : WAU72BF26LN034378 End : WAU72BF21MN095168 ☒ Not sequential

Vehicle 8 : 2021-2022 AUDI S7

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

S7: 18

Production Dates : JUL 02, 2021 - JAN 21, 2022

VIN Range 1 : Begin : WAUSFBF22MN101252 End : WAUSFBF29NN012375 ☒ Not sequential

Vehicle 9 : 2021-2022 AUDI S6 SEDAN

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

S6 SEDAN: 104

Production Dates : JUN 08, 2021 - JAN 21, 2022

VIN Range 1 : Begin : WAUDFAF24MN093982 End : WAUFFBF20NN019233 ☒ Not sequential

Vehicle 10 : 2021-2022 AUDI RS7

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

RS7: 125

Production Dates : JUN 07, 2021 - FEB 04, 2022

VIN Range 1 : Begin : WUAPCBF22MN909721 End : WUAPCBF2XNN901674 ☒ Not sequential

Vehicle 11 : 2021-2022 AUDI RS6 AVANT

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

RS6 AVANT: 211

Production Dates : NOV 03, 2020 - JAN 26, 2022

VIN Range 1 : Begin : WUA1CBF22MN903195 End : WUA1CBF26NN901127 ☒ Not sequential

Vehicle 12 : 2021-2022 AUDI A7

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

A7: 173

Production Dates : JUN 09, 2021 - JAN 24, 2022

VIN Range 1 : Begin : WAUR2AF27MN094027 End : WAUU2BF22NN012450 ☒ Not sequential

Vehicle 13 : 2021-2022 AUDI A6 SEDAN

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

A6 SEDAN: 713

Production Dates : JUN 08, 2021 - JAN 21, 2022

VIN Range 1 : Begin : WAUE3AF29MN101104 End : WAUL2BF23NN019242 ☒ Not sequential

Vehicle 14 : 2021-2022 AUDI A6 ALLROAD

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The recall population was determined based on a list of all potentially affected tanks provided by the supplier. All A6/A7 gasoline vehicles that are equipped with a tank before the introduction of the fuel level sender tolerance optimization are included in the recall.

The recalled products differ from products that were not included in the recall because vehicles outside of the recall population are equipped with a fuel level sender with tighter geometric tolerances.

A6/A7 PHEV vehicles are not affected by the issue as the fuel tank is geometrically different.

Amended/Added 12/21/2022

A6 ALLROAD: 103

Production Dates : JUN 08, 2021 -JAN 21, 2022

VIN Range 1 : Begin : WAU72BF2XMN094200 End : WAU92BF29NN019238 ☒ Not sequential

## Description of Defect :

**Description of the Defect :** Due to tolerance deviations, the distance between the fuel level sender and a ventilation pipe in the tank may be too small. As a result, the fuel level sender may get stuck on the ventilation pipe which will lead to a drop in the fuel level not being detected and therefore to an incorrect fuel level and remaining range being displayed in the instrument cluster. This may cause the vehicle to run out of fuel even though the indicator shows that there is still fuel in the tank.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** Inaccurate fuel indication may lead to an engine stall due to fuel starvation, increasing the risk of a crash.

**Description of the Cause :** Due to a change in the installation position of the fuel delivery module in connection with an excessively permissible tolerance in the geometry of the fuel level sender, the distance between the sender and the internal ventilation pipe may be too small in certain cases.

**Identification of Any Warning that can Occur :** The driver may notice an implausible remaining range since the last refueling or an implausible stagnation of the fuel gauge.

## Involved Components :



Component Name 1 : Fuel level sender

Component Description : Fuel level sender within fuel tank

Component Part Number : 4K0 919 047

### Supplier Identification :

#### Component Manufacturer

Name : TI Fluid System, Wapienica Plant

Address : 1 Dywizji Panczernej 47

Bielsko-Biala

Foreign States 43-382

Country : Poland

### Chronology :

December 2020: First field cases reported to AUDI AG where customers ran out of fuel but fuel level indicated tank still half full. December 2020 - February 2021: Investigation of field cases and root cause analysis together with supplier of tank and supplier of fuel level sender. It was found that fuel level sender may get stuck due to borderline tolerances. In combination with a different installation position of the fuel delivery module which was introduced in production in April 2018, this may cause the distance between the sender and the internal ventilation pipe may be too small in certain cases. In February 2021 the tank supplier introduced a special pre-check of the fuel level sender before installation in production.

March 2021-August 2021: Due to the unknown frequency and effect of the potential tolerance anomaly, Audi continued field monitoring to better assess the issue. September 2021 - February 2022: After the US market reported an increase in claims for fuel level sender getting stuck and indicating the wrong fuel level, an additional analysis commenced regarding the field situation in the different markets, failure rates, specific influences and possible impacts. Based on field cases potential additional root causes were investigated and finally ruled out.

March 7, 2022: The topic was presented to the Audi Product Safety Committee. Due to the possibility of customers running out of fuel while driving, a decision for a voluntary worldwide recall is made. Since the production remedy was introduced at the tank supplier in February 2021, Audi decides to include vehicles built until May 2021 in the recall population. This includes a large safety margin to assure all tanks produced before the improvement are captured.

Date of determination: March 7, 2022

As of March 11, 2022 VWGoA is aware of 115 warranty claims in the US.

There are 234 field reports (ATA and FRED). From 11/30/2018 to 3/30/2022.

AMENDED 12/21/2022: Updated chronology in separate document.

### Description of Remedy :

Description of Remedy Program : In order to create a sufficient distance between the fuel level sender and the ventilation pipe, a sensor with tighter geometric tolerances will be installed within the tank. Audi will offer a reimbursement plan under this recall.

How Remedy Component Differs from Recalled Component : The replacement parts (remedy component) have been built with tighter geometric tolerances than the recalled parts.

Identify How/When Recall Condition was Corrected in Production : In August 2021, the tank supplier started installing fuel level senders with optimized tighter geometric tolerances within the tank.

### Recall Schedule :

Description of Recall Schedule : Dealers/owners: On or before May 13, 2022

Planned Dealer Notification Date : MAY 13, 2022 - MAY 13, 2022

Planned Owner Notification Date : MAY 13, 2022 - MAY 13, 2022

\* NR - Not Reported