



Technical Service Bulletin

20 Fuel gauge does not show full after filling up tank

20 19 21 2052368/4 October 10, 2019. Supersedes Technical Service Bulletin Group 20 number 19-19 dated June 7, 2019 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8	2016 - 2018	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised <i>Warranty</i> (Updated Labor Operations)
3	06/07/2019	Revised <i>Warranty</i> (Updated Labor Operations)
2	09/26/2018	Revised header (Corrected Elsa display issue) Revised <i>Warranty</i> (Updated Labor Operations)

Customer states:

- Fuel gauge does not show full after filling up, it only shows 5/8ths of a tank (Figure 1).
- Fuel gauge shows the correct level after a short delay.
- Fuel gauge only shows full after driving for a short distance.
- MIL may be illuminated.



Figure 1. Only shows 5/8ths of a tank instead of full.

Workshop findings:

- One or more of the customer statements can be reproduced.



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- If DTC P046100 is found in the ECM, check and update if necessary using TSB 2043357: *20 MIL on (DTC P046100 - Fuel level sensor, circuit range/performance)*. If any other DTCs are found proceed with GFF and repairs.
- If the customer's concern included fuel gauge only showing 5/8ths after filling fuel tank, replace fuel sensor with updated part (green dot).

Technical Background

Delayed response from fuel gauge sensor 3 (G237).

Production Solution

Improved sensor housing.

Service

Follow instructions in the Elsa Repair Manual to replace fuel sensor 3 (G237).

Warranty

Claim Type:	<ul style="list-style-type: none">• 110 up to 48 Months/50,000 Miles.• G10 for CPO Covered Vehicles – Verify Owner.• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2015		
Damage Code:	0010		
Labor Operations:	Fuel gauge sender remove + reinstall	2015 1952	See SRT
	Fuel tank remove + reinstall	2010 1951	See SRT
	2 Wheels remove + reinstall	4405 2000	See SRT
	Rear axle assembly remove + reinstall	4205 1952	See SRT
	Vehicle front and rear measured	4495 0350	See SRT



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	Front wheel track adjust	4488 1550	See SRT
	Front wheel camber adjust	4489 1550	See SRT
	Noise dampening pan remove + reinstall	1082 1900	See SRT
	Rear wheel track adjusted	4493 1550	See SRT
	Rear wheel camber adjusted	4494 1550	See SRT
	Preparation Driver Assist Calibration (Air suspension only)	9092 0051	See SRT
	Camera Driver Assist Sys adjust (Air suspension only)	9638 1550	See SRT
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on the diagnostic protocol (Max 30 TU, with Air suspension 80 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
Claim Comment:	As per TSB #2052368/4		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA
4H0201317AA	Fuel sensor	01



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Additional Information

The following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2043357, *20 MIL on (DTC P046100 - Fuel level sensor, circuit range/performance)*.

All parts and service references provided in this TSB (2052368) are subject to change and/or removal.

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