

Technical Service Bulletin

Topic	42 Booming noise from rear area while vehicle is moving (depending on vehicle speed/wheel speed) DTC P18F100
Market area	Nordamerika (4NA),USA+Canada (4UC)
Brand	Audi
Transaction No.	2068250/5
Level	EH
Status	Released for publishing
Release date	Jun 25, 2026

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0051 - Electric drive	P18F100: Function limitation due to deviating wheel speeds		Intermittent

New customer code

Object of complaint	Complaint type	Position
chassis -> operation, driving and brake regulation	noises, vibrations	
entire vehicle -> assemblies	noises, vibrations	
entire vehicle -> vehicle areas -> vehicle rear	noises, vibrations -> buzzing	> no instruction <

Vehicle data

Q4

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
F4*	2022	A		*	*	*
F4*	2023	A		*	*	*
F4*	2024	A		*	*	*
F4*	2025	A		*	*	*

Documents

Document name
master.xml
examplevideo.mp4

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised attachment (Added video) Revised <i>Condition</i> (Removed QR Code)
4	11/21/2024	Revised <i>Warranty</i> (Updated labor operation)
3	11/06/2024	Revised header (Added Model Year) Revised <i>Condition</i> (Updated iconography) Revised <i>Technical Background</i> (Updated iconography) Revised <i>Service</i> (Updated iconography) Revised <i>Warranty</i> (Removed claim type, updated labor operation)

Customer states:

- Depending on the vehicle speed/wheel speed, a booming noise can be heard from the rear of the vehicle.

and/or

- The vehicle judders slightly (only noticeable when driving slowly), both when driving forwards and in reverse.

and/or

- When using cruise control or adaptive cruise control, there are noticeable fluctuations in the vehicle's speed. This only occurs in a very small/restricted speed range, e.g. when the speed is set between 62 mph and 65 mph (100 km/h and 105 km/h).

Workshop findings:

- The customer statement can be reproduced.

The following DTC (passive/intermittent) may be logged in the electric drive control unit J841 (diagnostic address 0051 or 00CE):

- P18F100:** Function limitation due to deviating wheel speeds (passive/intermittent).

The noise can **no longer** be heard in the following circumstances:

- If the vehicle is rolling in position "N".
- If the wiring harness connector of any wheel speed sensor of the affected axle (front/rear) is disconnected (this affects the control behavior of the electric drive motor).



To ensure the noise/complaint can be clearly assigned, please review the attached video.



If there are any other DTCs that indicate other complaints, these DTCs must be processed in advance according to Guided Fault Finding. Please note that in this case, the costs of this work cannot be invoiced based upon of this TSB.

Technical Background

Foreign metallic particles in the area of the wheel speed sensor/wheel hub/wheel bearing/drive shaft (see figure 1, red circle) lead to implausible wheel speed signals.

The foreign metallic particles may be in non-visible areas.



To test/analyze whether foreign metallic particles are present, it is necessary to expose/remove the corresponding components.



Figure 2: Metallic particles in the speed sensor.



Figure 3: Metallic particles in the hub.



Figure 4: Metallic particles/damage in the wheel hub/bearing.



Figure 5: Metallic particles/damage in the wheel hub/bearing.

Production Solution

Not applicable.

Service

1. Check components for foreign metallic particles.
2. Remove foreign metallic particles, check components for damage, and replace components if necessary.

Item 1: check components for foreign metallic particles:

- Expose/remove the relevant components (wheel speed sensor, wheel hub, wheel bearing, drive shaft) according to ELSA.
- Check components (wheel speed sensor, wheel hub, wheel bearing, drive shaft) for metallic foreign particles:
- If there are **no** foreign metallic particles, this TSB does not apply.
- Continue with ***Item 2*** if foreign metallic particles are found.

Item 2: Remove foreign metallic particles/check components for damage/replace components (if necessary).

- **Remove foreign metallic particles:**
- Thoroughly remove foreign metallic particles from the components with workshop materials.



NOTICE

Do **not** use magnetic aids/tools to remove the foreign metallic particles as this could cause secondary damage to the sensor ring in the wheel bearing.

- **Check components for damage:**

- If there is **no** damage to the components, no further work is required. In this case, reinstall the previously removed/exposed components according to ELSA.
- Finally, delete the DTCs.

If there is damage to the components, the corresponding components must be replaced, continue with “**Replace (components if necessary)**”.

- **Replace components (if necessary):**

- If there is damage to the components, the corresponding components must be replaced according to ELSA/ETKA.
- Finally, delete the DTCs.

Warranty



- The labor times correspond to the specified times in the repair operations list at the time of the publication of this TSB. There may be differences if the repair operations list has been updated in the meantime. If this is the case, the current time specifications in the repair operations list apply. Times to be entered manually (... 99) are exempt from this.
- The time required to use the Offboard Diagnostic Information System tester is not included in the times specified below. This time must be billed separately via the diagnostic log of the Offboard Diagnostic Information System tester.
- If there are any other event memory entries that indicate other complaints, the costs of this work cannot be invoiced on the basis of this TSB.

Claim Type	• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	4267		
Damage Code:	0010		
Labor Operations:	Rear axle		
	Remove and install 1 wheel speed sensor	4515 1999	10 TU
	Remove and install wheel hubs with bearings	4267 19XX	See SRT with associated operations.
	Check 1 wheel hub and speed sensor for foreign metallic particles and clean	4267 0199	10 TU

Remove and install 2 wheel speed sensors	4515 2099	20 TU
Remove and install 2 wheel hubs with bearings	4267 20XX	See SRT with associated operations.
Check 2 wheel hubs and speed sensors for foreign metallic particles and clean	4267 0299	20 TU
If necessary:		
Remove and install 1 drive shaft	4221 19XX	See SRT with associated operations.
Remove and install 2 drive shafts	4221 20XX	See SRT with associated operations.
Front Axle		
Remove and install 1 front wheel speed sensor	4511 1999	10 TU
Remove and install front wheel hub with bearing	4067 19xx	See SRT with associated operations.
Check 1 wheel hub and speed sensor for foreign metallic particles and clean	4067 0199	10 TU
Remove and install 2 front wheel speed sensors	4511 2099	20 TU
Remove and install 2 front wheel hubs with bearing	4067 20xx	See SRT with associated operations.
Check 2 wheel hubs and speed sensors for foreign metallic particles and clean	4067 0299	20 TU
If necessary:		
Remove and install 1 front drive shaft	4041 19xx	See SRT with associated operations.
Remove and install 2 front drive shafts	4041 20xx	See SRT with associated operations.
Charge battery	2706 8950	See SRT with associated operations.
GFF	0150 0060	Time stated on the diagnostic protocol
As per TSB 2068250/5		

Claim Comment:

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.

Please note the information on predecessors and items that are included and excluded in the repair operations, as well as any associated tasks.

Additional Information

All part and service references provided in this TSB (**2068250**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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