

Tank noises with 1/2 full tank

Topic number	LI47.10-P-079604
Version	2
Function group	47.10 - Fuel tank
Date	7/27/26
Validity	Model series 214/206 with gasoline engines
Reason for change	Adjust splitter sensor, low gear group (SSL)

Complaint

Audible "slurping" operating noise from the fuel tank

Cause

Conditions:

- The fuel tank is around half full
- The secondary chamber is almost empty. The suction jet pump suctions up small quantities of fuel and air. This results in vibrations and turbulence, which make noises. These noises may sound like slurping. The fuel pump and the drained secondary chamber amplify certain noises which can be loud or shrill. The viscosity of the fuel and the intensity of the fuel pump also impact the noises.
- The fuel level is in the area of the saddle overflow in the primary chamber. The fuel mixed with air flows back into the secondary chamber. The noises may therefore be audible for longer
- If the primary chamber is no longer in the area of the saddle overflow, the noises should disappear because the secondary chamber no longer receives fuel.
- The area of the saddle overflow in the primary chamber is around +/- 2 liters of fuel volume (fuel gauge shows around half full).

Attachments	
File	Description
Grafik Arbeitsgeräusch Saugstrahlpumpe_Graphic working noise suction jet pump_V1.pdf	

Remedy

- Refill/drain approx. 5 liters of fuel; if the noise is reduced/is no longer present due to this, the circumstance specified above is present

Further measures may cause a reduction in noises in the specified area:

- In isolated cases, a fuel tank installed under stress may amplify the noises. The installation position of the fuel tank and the contact surfaces on the body-in-white should be checked here. To do so, release the fuel tank and refasten it, see WIS.

- Replacement of component parts such as fuel tank/delivery module does not provide a remedy!

If a similar noise is heard, but the tank volume is 3/4 or 1/4 and not 1/2 as described above, another circumstance is present

WIS-References		
Document number	Title	Note
AR47.10-P-4100MRV	Remove/install fuel tank	Do not replace any component part, refasten as required

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms
Power generation > Fuel system > Noises > Steam bubbles hissing noise
Power generation > Fuel system > Fuel pump > Noise
Power generation > Fuel system > Fuel tank > Noises > Whistles

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
		H	4700136	Repair without material