

Tank noise, pulsating knocking noise

Topic number	LI47.10-P-079166
Version	2
Function group	47.10 - Fuel tank
Date	9/5/25
Validity	Model series 214/167 with gasoline engine
Reason for change	Adaptation of period of validity of this version

Complaint

A pulsating knocking noise (e.g. clattering) can be heard underneath the bench seat, particularly in the case of a full tank (1/1 fill level).

Cause

The vibrating air column of the purge flow volume triggers the fill limit vent valve (FLVV) to open and close repeatedly when the fuel tank is full.

Remedy

By reducing the fuel quantity by around 5 liters, the noise can no longer be heard.

In isolated cases, the noise can also be amplified by a fuel tank installed under stress and therefore lines adjacent to the body-in-white (above the fuel tank). In this case, the installation position of the fuel tank and the contact surfaces to the body-in-white must be checked.

To do so, loosen the fuel tank and refasten it.

Please do not replace component parts such as the fuel tank, activated charcoal canister, purge valve or delivery module, as this does not provide a remedy.

If a similar noise can be heard with a tank fill level of, for example, 3/4 or 1/4 and not with a full tank (1/1), there is a different issue.

Disclaimer

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Symptoms
Power generation > Fuel system > Noises > Knocking/pulsating noises
Power generation > Fuel system > Noises > Ticks (purging)

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
	Check/correct fuel tank installation position	H	47001	If the need arises