

M254 Engine making abnormal noise at idle

Topic number	LI01.00-P-078512
Version	1
Function group	01.00 - General
Date	10/25/24
Validity	Passenger car with M254 engine
Reason for change	

Complaint

Engine is making abnormal noise at idle. May be described as rattle, tapping, or knocking.

Cause

Various

Remedy

If necessary compare the noise to a like vehicle and if determined to be abnormal proceed with below steps.

Submit a TIPS case to the powertrain team with details from the below checks:

- Check engine maintenance history and oil level.
- Determine location where noise is most noticeable on engine.
- Does noise change with engine RPM?
- Record a video of the noise.
- Switch off injectors with XENTRY diagnosis one at a time and check if noise changes.
- Borescope cylinders with pistons at lowest point of travel and document findings with photos.

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.

XENTRY Tips

Symptoms

Power generation > Engine noise > Noise

Power generation > Fuel system > Fuel pump > Noise
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Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
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