

## M254 Engine idle fluctuation

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Topic number	LI07.70-P-078547
Version	1
Function group	07.70 - Gasoline injection and ignition system direct injection
Date	10/31/24
Validity	Passenger car with M254 engine
Reason for change	

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### Complaint

Engine idle fluctuates or stumbles at approximately 5-10 second intervals. No relevant fault codes are stored.

### Cause

Under analysis

### Remedy

Do not replace parts or perform control unit software updates/adaptations.

Create a TIPS case and submit to the powertrain team with the below information:

- Video showing the tachometer or actual values from XENTRY diagnosis when symptom present
- Quick test
- N3/10 MRG2 control unit log
- N73/3 EZS control unit log

### 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
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# XENTRY Tips

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Power generation > Engine management > Engine running > Surges
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Power generation > Engine management > Engine running > RPM too high/low
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Power generation > Engine management > Engine running > Runs rough/shakes
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Operation numbers/damage codes				
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Op. no.	Operation text	Time	Damage code	Note
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