



## Noise From Front End Attributable to Steering Gear - 167 (GLE/GLS)

|                   |                  |
|-------------------|------------------|
| Topic number      | LI46.00-P-079786 |
| Version           | 4                |
| Function group    | 46.00 - General  |
| Date              | 8/27/26          |
| Validity          | 167 GLE & GLS    |
| Reason for change | Language Updates |

### Complaint

Noise from front end thought to be from steering gear.

### Cause

During diagnostics of a front end noise, workshop is under the impression the noise is coming from the steering gear.

### WIS-References

| Document number  | Title                                                 | Note |
|------------------|-------------------------------------------------------|------|
| AR46.20-P-0601ME | Setting play between thrust element and steering rack | WIS  |

### Remedy

If the root cause of the noise cannot be found and is seemingly from the steering rack, perform the below LI's and diagnostics. If they have been



performed and the root cause still cannot be determined, a TIPS case must be opened to the Body/Chassis/Entertainment team prior to replacing the steering rack.

- LI46.35-P-067339 - "Rattling, Humming, Dry Sliding/Gravel Noise When Steering"
- LI46.35-P-071461 - "Check Tie Rod Outer Joint of Steering Gear"
- LI46.10-P-077391 - "Knocking Noise In The Area Of The Steering Gear or Steering Column Tube When Braking Or Moving Off; The Steering Wheel Can Also Be Felt To "Crack""
- Remove boot clamps closest to steering gear housing on both left and right (as seen in "Steering Rack Boot Clamp Location"). Pull back boot and inspect for rust, broken end stops, water, or any other anomalies. Keep the boot clamps in case the rack is returned.
- If the noise is described as "clacking" or "knocking" when moving the wheel back and forth in quick oscillations and the thrust element in the steering rack has **NOT** been checked yet, please perform a check and subsequent adjustment, if necessary, as detailed in AR46.20-P-0601ME.



- Remove sway bar links and see if noise persists.
- Perform NVH time-domain noise diagnosis pointing to the steering rack as the root cause.

The TIPS case must contain the following:

- Video underneath the vehicle with clearly audible noise while engine is running.
- Video inside the vehicle with clearly audible noise while engine is running.
- Vehicle checked for history of collisions.
- Vehicle history checked for other noise complaints in the area.
- List of other checked components (suspension, drive line components, wheel bearings, etc...).
- Along with the audible noise, does the feel/noise change through only a certain part of the steering arc sweep?
- Provide the thrust element before and after readings.



## Attachments

| File                                                  | Description |
|-------------------------------------------------------|-------------|
| <a href="#">Steering Rack Boot Clamp Location.jpg</a> |             |

## 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

Chassis/suspension > Steering system > Noises > Beeping

---

Chassis/suspension > Steering system > Noises > Dragging/squealing

---

Chassis/suspension > Steering system > Noises > Cracking

---

Chassis/suspension > Steering system > Noises > Hissing/streaming

---

Chassis/suspension > Steering system > Noises > Chattering/knocking

---

Chassis/suspension > Steering system > Noises > Humming/vibrations

---

Chassis/suspension > Steering system > Noises > Clattering

---