

Reference	SSM76494
Models	New Range Rover / L460 New Range Rover Sport / L461
Title	Rattle or Knocking Noise from the Rear Steering Gear When Driving on Uneven or Gravel Road Surfaces
Category	Chassis
Last modified	20-Aug-2026 15:48:00
Symptom	303000 Steering/Handling
Attachments	Attachment 1.WAV (Attachment 1.WAV) Attachment 2.WAV (Attachment 2.WAV) Attachment 3.mp4 (Attachment 3.mp4)
Content	<u>Model / Model Year / Derivative</u> Range Rover / 22MY onwards / Vehicles equipped with rear wheel steering Range Rover Sport / 23MY onwards / Vehicles equipped with rear wheel steering <u>Situation:</u> JLR Engineering investigations have identified customer reports of a 'rattle' or 'knocking' noise from the rear steering gear when driving in a straight line over uneven or gravel road surfaces at speeds between 12 and 20 mph (20 and 30 km/h). <u>Cause:</u> The root cause is currently under investigation. Following the guidance within this SSM will support Engineering in determining the root cause. <u>Action:</u> Refer to the service request below. <u>Service Request:</u> If the 'rattle' or 'knocking' noise can be heard in the conditions described above and matches the sound files (refer to attachments 1 and 2), complete the following steps:

1. Check all rear suspension fixings are tightened to the specified torque values according to TOPlx.
2. Using chassis ears or a similar diagnostic tool, confirm that the noise is coming from the rear steering gear.
3. If the noise is coming from the rear steering gear, using a suitable tool, attempt to rotate the toe link to check if the clevis bolt is loose (refer to attachment 3). If the clevis bolt is loose:
 - Capture photo and video evidence.
 - Replace the rear steering gear.
4. If the clevis bolt is not loose:
 - Check the torque of the rear steering gear to rear subframe retaining bolts.
 - If any of the bolts are below the torque specification, tighten the bolts to the specified torque values according to TOPlx.
 - Complete a road test.
 - If the noise is still present, replace the rear steering gear.
5. Following replacement of the rear steering gear complete a road test to confirm that the noise is no longer present.
6. Raise an Electronic Product Quality Report (EPQR) and include the following information:
 - Reference to CES_510 (CSS Group).
 - Reference to P406478 (Project number).
 - Reference to this SSM (76494).
 - Photos and video evidence captured during diagnosis.
 - Completed repair actions.

(Ref 000406478 / 10883)

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