

Reference	SSM76049
Models	Defender / L663 Discovery / L462 New Range Rover / L460 New Range Rover Sport / L461
Title	Noisy Rear Drive Shaft Assembly
Category	Driveline
Last modified	15-Aug-2023 00:00:00
Symptom	597997 Driveline Noise Concerns
Attachments	attachment 1.MOV (attachment 1.MOV) attachment 2.jpg (attachment 2.jpg)

Content	<p><u>Model / Model Year / Derivative</u></p> <p>DISCOVERY / 22MY onwards / All derivatives DEFENDER / 22MY onwards / All derivatives RANGE ROVER / 23MY onwards / All derivatives RANGE ROVER SPORT / 23MY onwards / All derivatives</p> <p><u>Situation:</u></p> <p>JLR Engineering investigations have found a 'clicking' noise from the rear of the vehicle. The noise can be heard coming from both sides of the vehicle while moving forward or backward. (See 'attachment 1' - A video showing an example of the clicking noise heard from the rear of the vehicle)</p> <p><u>Cause:</u></p> <p>Tooling concern.</p> <p><u>Action:</u></p> <p>Follow the instruction(s) below.</p> <p><u>SERVICE INSTRUCTION:</u></p> <ol style="list-style-type: none"> 1. Remove both rear wheel knuckles, (see TOPIx Workshop Manual section 204-02: Rear Suspension - Removal and Installation - Wheel Knuckle). 2. Use a suitable cleaning fluid to clean both rear halfshaft splines. 3. Apply Loctite™ 638 (or an equivalent retaining compound suitable for applications where high dynamic force or cyclic loading is expected) in a spiral pattern across the length and circumference of both rear halfshaft splines. (See 'attachment 2' - An image showing Loctite™ 638 being applied to the rear halfshaft splines)
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4. Install both rear wheel knuckles, (see TOPIx Workshop Manual section 204-02: Rear Suspension - Removal and Installation - Wheel Knuckle).
5. Torque both new rear half shaft nuts to the below specification:
DISCOVERY and DEFENDER torque specification:
Stage 1: 300 Nm.
Stage 2: -90 deg.
Stage 3: 120 Nm.
Stage 4: 60 deg.
RANGE ROVER and RANGE ROVER SPORT torque specification:
Stage 1: 300 Nm.
Stage 2: -90 deg.
Stage 3: 135 Nm.
Stage 4: 60 deg.
6. The vehicle must remain stationary for a minimum of 8 hours to allow the Loctite™ 638 (or a suitable equivalent) to fully cure.
7. Raise an Electronic Product Quality Report (EPQR), providing the following information:
 - Details on which side of the vehicle the noise could be heard from (Rear Left / Rear Right / Both sides).
 - Details on which type(s) of driving conditions or actions would cause the noise to occur.
 - Reference to the following engineering team: CES_330 - Suspension, Frames & Powertrain Mtg.

(ref000375815)

(ref000371889)

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