

V O L V O

Volvo Car USA LLC

Technical Journal

Technical Journal Title ERAD (Electric Rear Axle Drive) Bearing Noise		Ref. No. TJ 36665.4.2	
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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 4601	
Function Description Rear axle, complete		Page Page 1 of 2	

Attachment

File Name	File Size
TJ 36665 Faulty Motor Bearing Noise.mp4	0.7789 MB
TJ 36665 Faulty Motor Bearing Noise Example 2.mp3	0.2748 MB
TJ 36665 Normal Sound.mp4	0.7451 MB

Rows beginning with * are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

DESCRIPTION:

* Additional VST OP number added.

* Note added in the Service section.

If a customer is driving in electric mode and experiences noise from the rear of the vehicle that increases with vehicle speed, please follow the instructions under "Service."

CSC Customer Symptom Codes

Code	Description
8N	Driving/Unusual noise/Unsure when/at all times
D2	Front/rear axle/Unusual noise

DTC Diagnostic Trouble Codes

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
238	BC	B1BPHEV					2018-2018	35	-	201718-201744
246	BR	B1FPHEV					2018-2018	21	-	201717-201742
256	BC	B1BPHEV					2016-2017	21	-	201508-201716
256	BR	B1FPHEV					2018-2018	21	-	201717-201742

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SERVICE:

Baseline:

First please watch the baseline video (TJ 36665 Normal Sound.mp4) for an example of a **normal** ERAD sound. Use a headset or earphones to hear the sound clearly.

If a customer is driving in electric mode and experiences abnormal noise from the rear of the vehicle that increases with vehicle speed (see example video TJ 36665 Faulty Motor Bearing Noise.mp4) it is most likely an electrical motor bearing issue. No DTCs (Diagnostic Trouble Codes) will be stored and no messages will appear in the DIM (Driver Information Module).

In these cases, the **Bearing Kit**, function group 4601, should be replaced. It is not necessary to replace the complete ERAD motor.

Note: This repair procedure is also available for Standard Range PHEV (Plug-In High-Voltage Electric Vehicles) outside this Technical Journal's structure week range. If the bearing kit is available in the VIDA parts catalog, the repair can be completed.

Warranty claim info:

To get a warranty claim accepted for a job described in this TJ, use the corresponding VST OP number stated in this TJ.

Note that the TJ number must be stated in the repair order text.

VST Operation Number

VST Operation Number	Description
26010-2	Coolant drain/fill
31133-3	Isolation testing high voltage system
36060-3	Calibration with VIDA
46533-2	Electric Rear Axle Drive (ERAD) remove-install / replace
46561-3	ERAD bearing, replace
31130-2	High Voltage Battery disconnection and connection

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area "Vehicle Report" and sub concern area "Support not needed" or "Support needed", use function group 4601.

This TJ has three sound files.