Volvo

Volvo Car USA LLC Technical Journal

| Technical Journal Title | Ref. No. | | | | |
|----------------------------|----------------|-------------|--|--|--|
| ERAD (Electric Rear Axle D | TJ 33358.9.0 | | | | |
| Issuer (Dept.) | Issue Date | Status Date | | | |
| Technical Service | 7/7/23 | 7/14/23 | | | |
| Car Market | Market Partner | | | | |
| United States and Canada | 4632 | | | | |
| Function Description | Page | | | | |
| Electrical rear axis drive | Page 1 of 2 | | | | |

Attachment

| File Name | File Size |
|---|-----------|
| TJ 33358 Faulty Motor Bearing Noise.mp4 | 0.7789 MB |
| TJ 33358 Normal Sound.mp4 | 0.7451 MB |
| TJ 33358 Sensor Disk Noise.mp4 | 5.9175 MB |

Rows beginning with * are modified

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

DESCRIPTION:

* Updated in its entirety.

If a customer experiences noise from the ERAD (Electrical Rear Axle Drive), please follow the instructions under "Service."

CSC Customer Symptom Codes

| Code | Description |
|------|---|
| DL | Warning lights and chimes/Malfunction Indicator Light ("Check engine" light) indication/no indication |
| 8N | Driving/Unusual noise/Unsure when/at all times |
| D2 | Front/rear axle/Unusual noise |

DTC Diagnostic Trouble Codes

Vehicle Type

| Туре | Eng | Eng Desc | Sales | Body | Gear | Steer | Model Year | Plant | Chassis range | Struc Week Range |
|------|-----|-------------|-------|------|------|-------|------------|-------|------------------|---------------------|
| 224 | ВК | B1LPHEV | | | | | 2020-9999 | | - | 201920-209952 |
| 224 | BR | B1FPHEV | | | | | 2019-9999 | | - | 201850-209952 |
| 225 | ВК | B1LPHEV | | | | | 2020-9999 | | - | 201920-209952 |
| 225 | BR | B1FPHEV | | | | | 2019-9999 | | - | 201850-209952 |
| 235 | BR | B1FPHEV | | | | | 2019-9999 | | - | 201817-209952 |
| 238 | вс | B1BPHEV | | | | | 2018-9999 | | - | 201726-209952 |
| 238 | ВК | B1LPHEV | | | | | 2020-9999 | | - | 201920-209952 |
| 238 | BR | B1FPHEV | | | | | 2018-9999 | | - | 201746-209952 |
| 246 | вк | B1LPHEV | | | | | 2020-9999 | | - | 201920-209952 |

| Туре | Eng | Eng Desc | Sales | Body | Gear | Steer | Model Year | Plant | Chassis range | Struc Week Range |
|------|-----|-------------|-------|------|------|-------|------------|-------|---------------|---------------------|
| 246 | BR | B1FPHEV | | | | | 2018-9999 | | - | 201717-209952 |
| 256 | вс | B1BPHEV | | | | | 2016-9999 | | - | 201526-209952 |
| 256 | BK | B1LPHEV | | | | | 2020-9999 | | - | 201920-209952 |
| 256 | BR | B1FPHEV | | | | | 2018-9999 | | - | 201717-209952 |

SERVICE:

Use the information below and the attached videos as a guideline to determine the correct repair.

The ERAD (Electrical Rear Axle Drive) consists of two main parts, a transmission, and an electrical motor.

An instructional repair video is included as an attachment (TJ 33358 Repair Video.mp4).

Baseline:

First please watch the baseline video (TJ 33358 Normal Sound.mp4) for an example of a **normal** ERAD sound. Use a headset or earphones to hear the sound clearly.

Noises:

- If the 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 33358 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 this case, follow **Technical Journal 36665**.
- If the customer experiences an abnormal noise when the vehicle is standing still after driving, it might be the ERAD sensor disc causing the problem. Use video (TJ 33358 Sensor Disk Noise. mp4) as a reference. In this case, follow **Technical Journal 35567**.

Warranty claim info:

No warranty claim is accepted for a job described in this Technical Journal.

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service instruction described in this TJ has no effect. Use the concern area "Vehicle Report" and sub-concern area "Support Needed," use function group 4632.

This has three sound files.

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