



Technical Journal

TITLE:

Prior Approval: T8 ERAD (Electric Rear Axle Drive), Complete

REF NO: TJ 33557.1.1	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States and Canada	
PARTNER: 3 US 7510 Volvo Car USA		ISSUE DATE: 2019-08-07	STATUS DATE: 2019-08-14
FUNC GROUP: 3230	FUNC DESC: Electric drive system, high voltage	Page 1 of 3	

“Right first time in Time”

Attachment

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
238	BR	B1FPHEV					2018-9999		-	0-0
246	BR	B1FPHEV					2018-9999		-	0-0
256	BC	B1BPHEV					2016-9999		-	0-0
256	BR	B1FPHEV					2018-9999		-	0-0

CSC Customer Symptom Codes

Code	Description
YR	Drive mode "AWD"/Disengages automatically/Not available
56	Drive mode "OFF ROAD"/Disengages automatically/Not available
53	Driving, Twin Engine/Propulsion using electric motor not possible
55	Driving, Twin Engine/Propulsion using combustion engine/Always active/Active too often
AJ	Driving/Poor performance/lacks power
IV	Text window and warning symbol/Text message
DL	Warning lights and chimes/Malfunction Indicator Light ("Check engine" light) indication/no indication
8N	Driving/Unusual noise/Unsure when/at all times

VST Operation Number



DTC Diagnostic Trouble Codes

Rows beginning with * are modified

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

Text

DESCRIPTION:

* Please first review TJ 33358 to determine if a complete ERAD is needed or if the ERAD can be repaired by other means.

* Complete ERADs are not to be replaced without contacting Volvo Retailer Technical Support (RTS). ERAD components such as the transmission do not require a Vehicle Report for replacement.

* Normal Vehicle Report routines apply. The title of the report should begin with ERAD: then list the issue and/or the DTC, with sub concern area "Prior Approval". Please use the guidance under "Vehicle Report" to decide other information to include in the case.

Volvo THD will decide further action.

SERVICE:

* Decided case by case after a vehicle report has been sent. No complete ERAD replacements are to be done unless advised in vehicle report from RTS/Prior Approval Agent.

Refer to E-Service General Bulletin 00-383.

VEHICLE REPORT:

The title of the report should begin with ERAD: then list the issue and/or the DTC, with sub concern area "Prior Approval".

Please use the guidance under service to decide other information to include in the case.

Please understand and attempt reproduce the customer symptom before submitting vehicle report. If the fault experienced is not listed here, please include a description of the complaint and any information about how the complaint is duplicated.

All ERAD complaints with ERAD clutch or electric motor DTC's in the IEM (Inverter Electronics Module)

* Please check and follow VIDA fault tracing for the customer complaint first. If ERAD replacement is required after fault tracing, no additional information is needed in the TIE case.

ERAD Complaints of jerking or delayed engagement with no relevant DTCs present

* Please first check TJ 33358

If the repair is unsuccessful: please perform a VIDA parameter recording of the fault occurring with the following parameters selected:

- Accelerator pedal position, analog - ECM (Engine Control Module)
- ERAD clutch, state - IEM
- ERAD, estimated torque - IEM



- ERAD, motor speed - IEM
- Longitudinal accelerometer sensor input - BCM (Brake Control Module)
- Vehicle speed - BCM

Save and attach the resulting *.plot file to the Vehicle Report (Parameters->Selected->Graphical View->Save)

Be sure to note the time in seconds in the recording that the fault occurred. This will aid in quick diagnosis of the fault.

ERAD complaints of howling or other noises

Please include a recording of the fault and note any other identifying information such as speed to reproduce, if the noise goes away in any drive modes, or other circumstances needed to reproduce.

Technical Help Desk case number is the validation for warrant claim payment, and is required in the authorization field, or in the repair text if the authorization filed is being used.