



Technical Journal Title		Ref. No.	
PHEV Intermittent Start of the Combustion Engine in Hybrid or Pure Mode		TJ 36415.4.0	
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Technical Service		3/24/23	3/27/23
Car Market	Partner	Function Group	
United States and Canada	3 US 7510 Volvo Car USA	4632	
Function Description		Page	
Electrical rear axis drive		Page 1 of 3	

Rows beginning with * are modified

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

DESCRIPTION:

*Updated with additional software products under "Service."

If the vehicle intermittently starts the combustion engine in Hybrid or Pure mode during parking maneuvers and sometimes sets the DTC stated below, please follow the advice under "Service."

CSC Customer Symptom Codes

Code	Description
YS	Drive mode "HYBRID"/Combustion engine active/Always/too often
YO	Drive mode "PURE"/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

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
IEM	P287100	Intermittent
IEM	P287100	Permanent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224	BK	B1LPHEV					2020-2022		-	201920-202146
224	BR	B1FPHEV					2019-2022		-	201850-202146
225	BK	B1LPHEV					2020-2022		-	201920-202146
225	BR	B1FPHEV					2020-2022		-	201850-202146
235	BR	B1FPHEV					2019-2022		-	201817-202146
238	BC	B1BPHEV					2018-2018		-	201718-201744
238	BK	B1LPHEV					2020-2022		-	201920-202146
238	BR	B1FPHEV					2018-2022		-	201746-202146
246	BK	B1LPHEV					2020-2022		-	201920-202146
246	BR	B1FPHEV					2018-2022		-	201717-202146

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
256	BC	B1BPHEV					2016-2017		-	201508-201716
256	BK	B1LPHEV					2020-2022		-	201920-202146
256	BR	B1FPHEV					2018-2022		-	201717-202146

SERVICE:

Do not replace any parts and do not fault trace due to this behavior.

A new, temporary IEM (Inverter Electrical Rear Axle Drive Module) software is now possible to order and download via VIDA into SPA standard-range PHEV **model years 2020-2022 only**. This software will reduce combustion engine starts during parking maneuvers.

Software products to be used in VIDA:

Vehicle types	IEM HW part number	Software Product
Model Year 2020-2022 S90/V90	32280831	32319445
	32335587	32319445
	32223647	32319446
Model Year 2020-2022 S90L	32280831	32397229
	32335587	32397229
	32223647	32319470
Model Year 2020-2022 XC60/XC90	32280831	32397227
	32335587	32397227
	32223647	32301780
Model Year 2020-2022 S60/V60	32280831	32397228
	32335587	32397228
	32223647	32319488

Note! The IEM software products are not yet released in the IEM-ordinary structure. This means that any SW product ordered from VIDA which includes IEM SW will download the previous IEM SW to the vehicle.

In order to make sure that the new IEM SW is in the vehicle, do not download any software to the vehicle after the applicable SP in the table above has been downloaded.

There will be a new IEM(Inverter Electrical Rear Axle Drive Module) software released in VIDA during quarter 2, 2023 for models years 2016-2022.

Warranty claim info:

To get a warranty claim accepted for a job described in this TJ, please use the following data:
VST OP number: 36004-2

NOTE: TJ number must be stated in the repair order text!

VST Operation Number

VST Operation Number	Description
36004-2	Software Control Module downloading

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 Needed", use function group 4632.