Technical Journal

TITLE:

Diagnose of HV system after HVCH malfunction

REF NO:	ISSUING DEPARTMENT:	CAR MARKET:	
TJ 35721.3.0	Technical Service	United States and Canada	
PARTNER: 3 US 7515		ISSUE DATE: 2020-11-03	STATUS DATE: 2020-11-06
FUNC GROUP: 8760	FUNC DESC: Auxiliary heater, electrically operated	Page 1 of 3	

Attachment

File Name	File Size
TJ 35721.jpg	0.1643 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
534							2021-2021	19	0000001-9999999	202007-999952

CSC Customer Symptom Codes

Code	Description
BE	Starting/Engine does not start/Engine does not turn/Unsure when/at all times
BJ	Starting/Engine does not start/Unsure when/at all times

VST Operation Number

VST Operation Number	Description
36050-2	Calibrating/Identifying with VIDA
31130-2	High Voltage Battery, disconnecting and connecting

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.

Produced and printed in the USA and available as an electronic document.

DESCRIPTION:
* This TJ is rewritten in its entirety

If confirmed HVCH malfunction, please follow advice under service.

SERVICE:
If a defect is found with the HVCH causing an isolation warning, before replacement of the HVCH perform a test of high voltage battery pre-charge contactor. This is to determine if the pre-charge resistor has been damaged. If the result confirms the pre-charge resistor is damaged, also replace the complete BDU.

High voltage battery contactor test found in Vida as follow: Planning & Diagnostics->Components->ECUs->Battery Energy Control Module->Diagnostic Sequences
If high voltage battery contactor test result is ok, please remove the MSD to prevent further stress on pre-charge resistor.

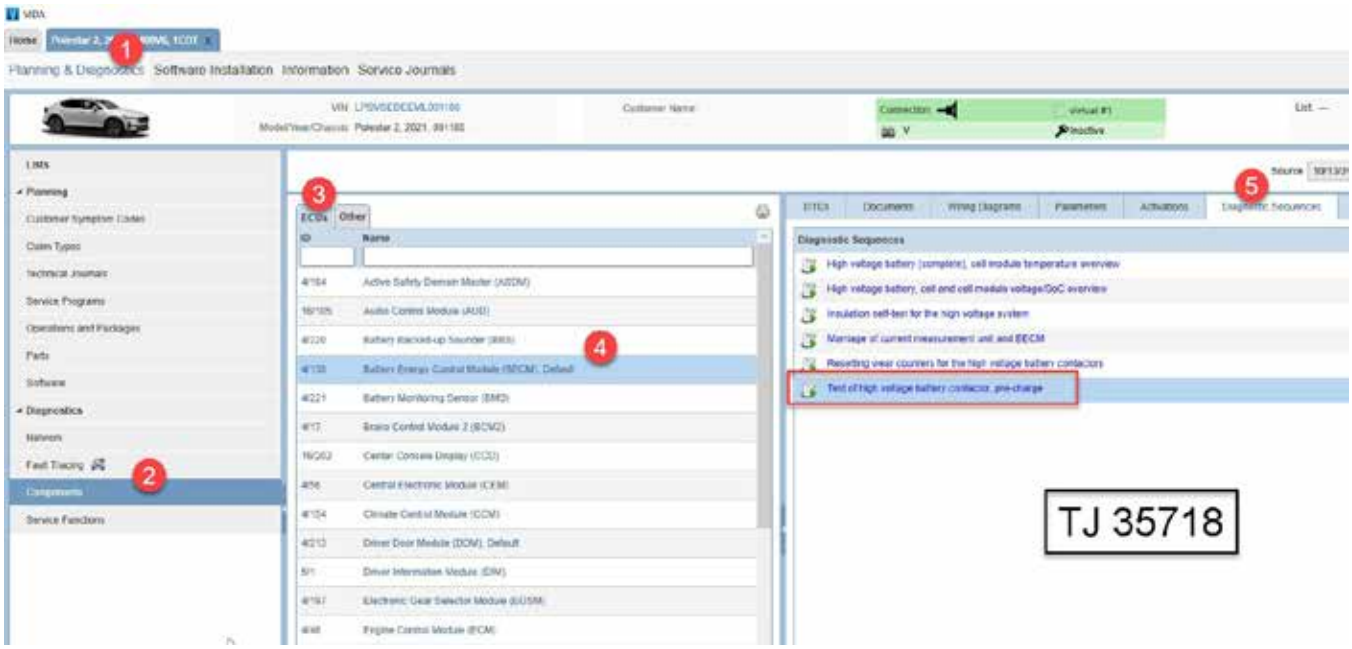
After HVCH replacement please test the 3-phase AC Charging circuit to determine if the OBC has been damaged. This has to be done on an 11kW and above power charge station to utilize 3-phase charging. If a red indication is present in the EVI Charging Inlet, please follow fault tracing according to VIDA.

HVCH = High Voltage Coolant Heater
BDU = Battery Disconnect Unit
MSD = Manual Service Disconnector
OBC = On Board Charger
EVI = Electrical Vehicle Inlet

Warranty claim info:
To get warranty claim accepted for a job described in this TJ, please use following data:
VST OP number: 36050-2
VST OP number: 31130-2
36050-2 Calibrating/Identifying with VIDA
31130-2 High Voltage Battery, disconnecting and connecting

VEHICLE REPORT:
Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area “Vehicle Report Polestar” and sub concern area “Support needed Polestar”, use function group 3113.

o view TJ attachment continue to next page. This TJ has one attachment.


1
Planning & Diagnostics
Software Installation
Information
Service Journals
2
3
4
5
TJ 35718