



Technical Journal

TITLE:

DTC SRS-B15381B High Voltage battery loop control

REF NO:
TJ 34567.1.0

ISSUING DEPARTMENT:
Technical Service

CAR MARKET:
United States and Canada

PARTNER:
3 US 7510 Volvo Car USA

ISSUE DATE:
2019-06-03

STATUS DATE:
2019-06-10

FUNC GROUP:
3113

FUNC DESC:
Battery, high voltage

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“Right first time in Time”

Attachment

File Name	File Size
TJ 34567.pdf	0.9564 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
2XX	BC						2016-2018		-	201526-201744
2XX	BR						2018-9999		-	201717-999952

CSC Customer Symptom Codes

Code	Description
7G	Text window and warning symbol/Yellow symbol and text message
IV	Text window and warning symbol/Text message

VST Operation Number

VST Operation Number	Description
36001-2	Diagnostic trouble codes read / reset / known Diagnostic trouble codes with VIDA
96158-3	Troubleshooting instrumentation: KT



DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
SRS	B15381B	Intermittent

Text

DESCRIPTION:

If a Supplemental Restraint System (SRS) message in combination with DTC SRS-B15381B is present, please follow “Service”.

Technical explanation:

The SRS module has a loop to the High Voltage (HV) battery as one of several methods to open battery contactors in the event of an accident.

The SRS module monitors the resistance value in this loop. If the loop is open or resistance is high, it will set the DTC and a message will be displayed.

Reported customer symptom are Driver Information Module (DIM) SRS message and SRS warning symbol.

SERVICE:

The resistance of the circuit can be monitored using the SRS parameter “High voltage battery power supply disconnect.”

Check the cable harness from the SRS module to the HV battery.

Check terminal 11 and 12 in the low voltage connector to the HV battery.

For more reference information, see attachment.

*Warranty claim info:

To get warranty claim accepted for a job described in this TJ, please use following data:

VST OP number: 36001-2, 96158-3

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 3113.

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

VIDA, diagnostic service

Source

ECUsOther

ID	Name
4/185	Infotainment Head Unit (IHU)
4/235	Inverter Electric Rear Axle Drive Module (IEM)
4/236	Inverter Generator Module (IGM)
4/238	On-Board Charger Module (OBC)
4/198	Overhead Console (OHC)
27/13	Parking Assistance Camera (PAC)
4/214	Passenger Door Module (PDM)
4/116	Power Operated Tailgate Module (POT)
4/169	Power Seat Module Driver (PSMD)
4/210	Power Seat Module Passenger (PSMP)
6/163	Power Steering Control Module (PSCM)
4/102	Steering Column Lock Module (SCL)
4/247	Steering Wheel Module (SWM)
93/269_172	Steering Wheel Module (SWM), SAS in SWM
4/176	Supplemental Restraint System Module (SRS)
4/209	Transmission Actuator Control Module (TACM)
4/28	Transmission Control Module (TCM)
4/161	Vehicle Connectivity Module (VCM)
4/163	Vehicle Dynamics Domain Master (VDDM)
93/318_118	Vehicle Dynamics Domain Master (VDDM), BCM in VDDM

DTCsDocumentsWiring DiagramsParametersActivationsDiagnostic SequencesImagesECU Identification

ParametersSelected

Parameter

☐ Airbag warning lamp - SRS

☒ High voltage battery power supply disconnect - SRS

☐ Occupant classification sensor status - SRS

☐ OWS calibration status - SRS

☐ Passenger airbag cut-off switch, fault - SRS

☐ Passenger airbag cut-off switch, status - SRS

☐ Restraint control module operating mode - SRS

☐ Seat belt tension sensor - SRS

☐ Starter motor cut off - SRS

☐ Supply voltage (KL15A) - SRS

☐ Supply voltage (KL15B) - SRS

High voltage battery power supply disconnect - SRS

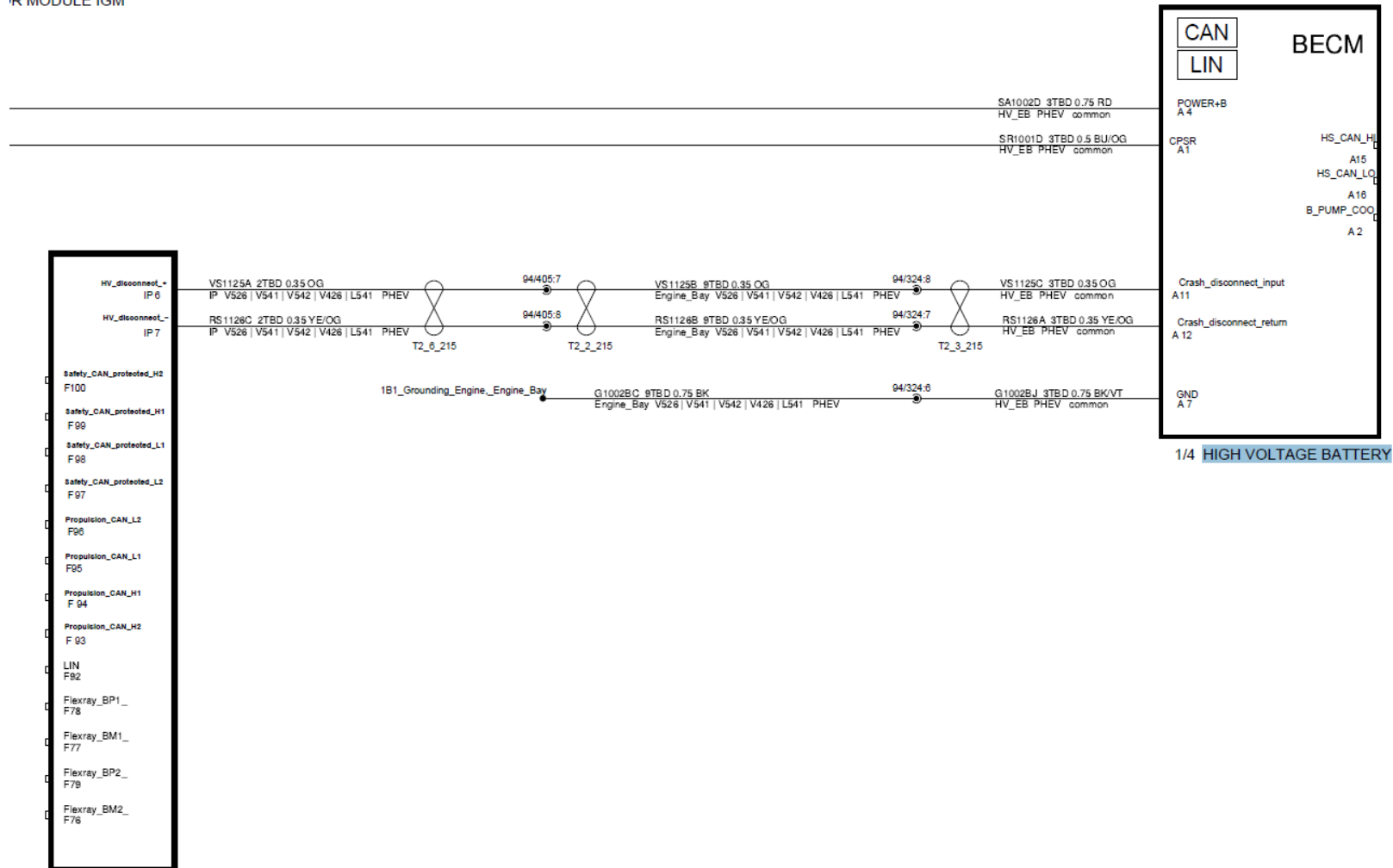
Parameter usage:
The parameter shows the measured resistance within the igniter and its harness.

Parameter origin:
The parameter value originates from the Supplemental Restraint System Module (SRS).

Desired values:
When the component is non faulty the range is 1.8 - 6 Ω .
When the component is short-circuited the value is approximately 0 Ω .
When the component is deployed or there is an open circuit the value is above 10 Ω .
When the component is deployed, open circuit or not installed the value is 65.54 Ω .

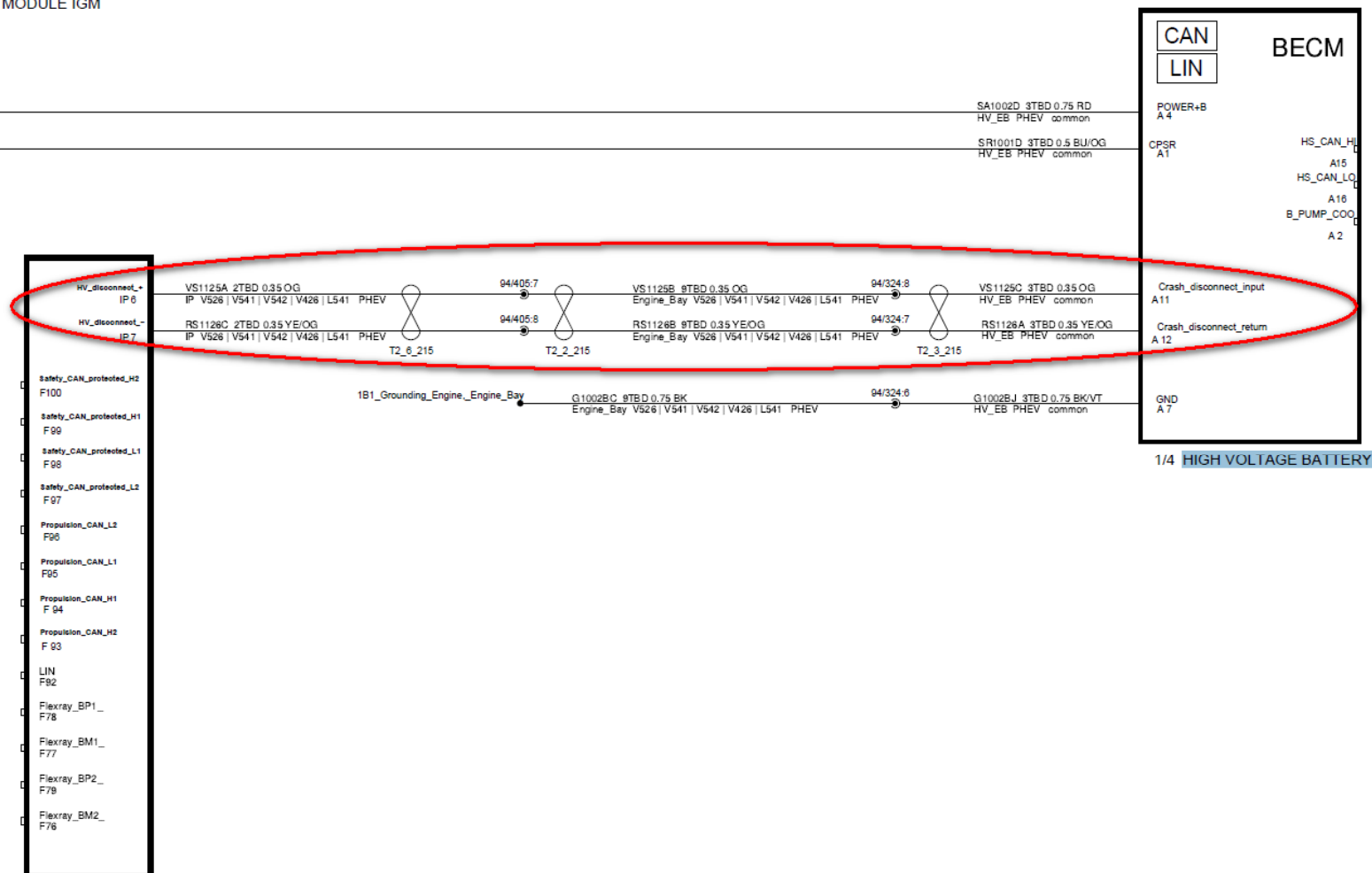
DTC SRS-B15381B, High voltage battery power supply disconnect deployment loop control

IR MODULE IGM



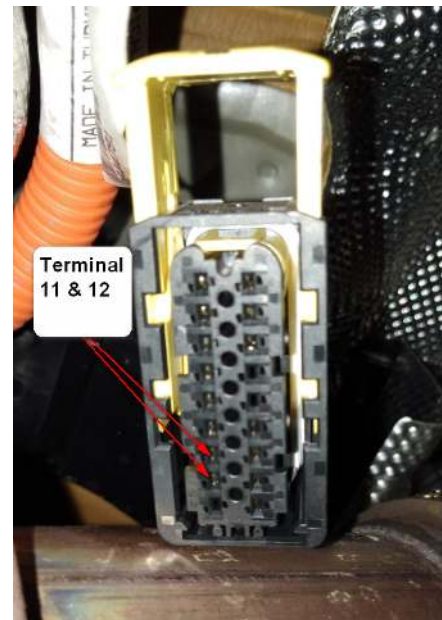
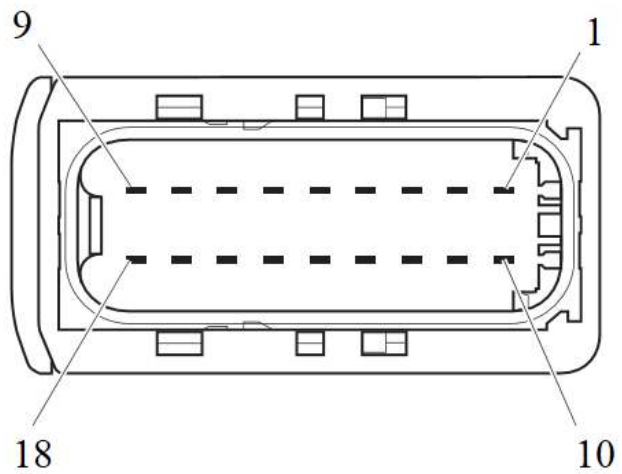
1/4 HIGH VOLTAGE BATTERY

IR MODULE IGM



4/176 SUPPLEMENTARY RESTRAINT SYSTEM SRS

LV connector from car to HV battery
Terminal 11 and 12 crash input



PHEV INLINE IP ENGINE BAY

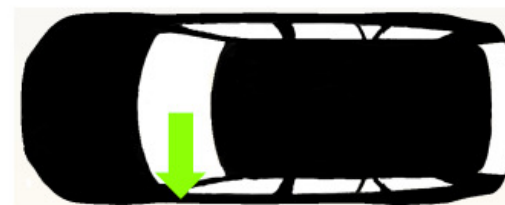


94/405

Connector pno

31409161

Position in vehicle





94/324

Connector pno

31344076

Position in vehicle

