

# **Technical Journal**

### TITLE:

## DTC SRS-B15381B High Voltage battery loop control

REF NO: TJ 34567.1.2	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States and Canada		
3 US 7	PARTNER: '510 Volvo Car USA	ISSUE DATE: 2020-11-03	STATUS DATE: 2020-11-06	
FUNC GROUP: 3113	FUNC DESC: Battery, high voltage	Page <sup>2</sup>	l of 15	

"Right first time in Time"

### **Attachment**

File Name	File Size
9513036.png	0.5945 MB
Connector 1-4 terminal replacement.pdf	0.4576 MB
TJ 34567.pdf	0.9564 MB

## **Vehicle Type**

Туре	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
2XX	BA						2016-9999		-	201526-999952
2XX	BC						2016-9999		-	201526-999952
2XX	BK						2020-9999		-	201917-209952
2XX	BK						2020-9999		-	201917-999952
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

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### **VST** Operation Number

VST Operation Number	Description			
37119	General Wire Repair (max time of 0.5)			
36001-2	Diagnostic trouble codes read / reset / known Diagnostic trouble codes with VIDA			
96158-3	Troubleshooting instrumentation: KT			

### **DTC** Diagnostic Trouble Codes

<b>Control Module</b>	Code	Fault Type		
SRS	B15381B	Intermittent		

Rows beginning with \* are modified

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

#### **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.

- \* Drag check terminal 11 and 12 in the low voltage connector to the HV battery using tool 9513036.
- \* For more reference information including connector disassembly, see attachments.

#### 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, 37119

### **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 attachments continue to next page. This TJ has three attachments.

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# **CONNECTOR 1-4 TERMINAL REPLACEMENT**



# **REQUIRED TOOLS**

## Required tools:

- Volvo Special Tool 951 2630 \*
- Pocket Screwdriver

\* 951 2630 is available for purchase on the Volvo Cars Special Tools website.

http://www.volvotools.com/



# **TERMINAL REMOVAL**

## Terminal removal:

• Use a pocket screwdriver to release the locking tab.





# **TERMINAL REMOVAL**

### Terminal removal continued:

- Insert the prongs of 951 2630 into the smaller holes in the connector housing, push in until it stops.
- Note: <u>DO NOT</u> insert the tool into the larger rectangular openings, this will damage the terminals!
- Now remove the tool, the terminal should pull out smoothly from the backside. You may need to pull gently on the wire while removing the tool.





## TERMINAL REPLACEMENT

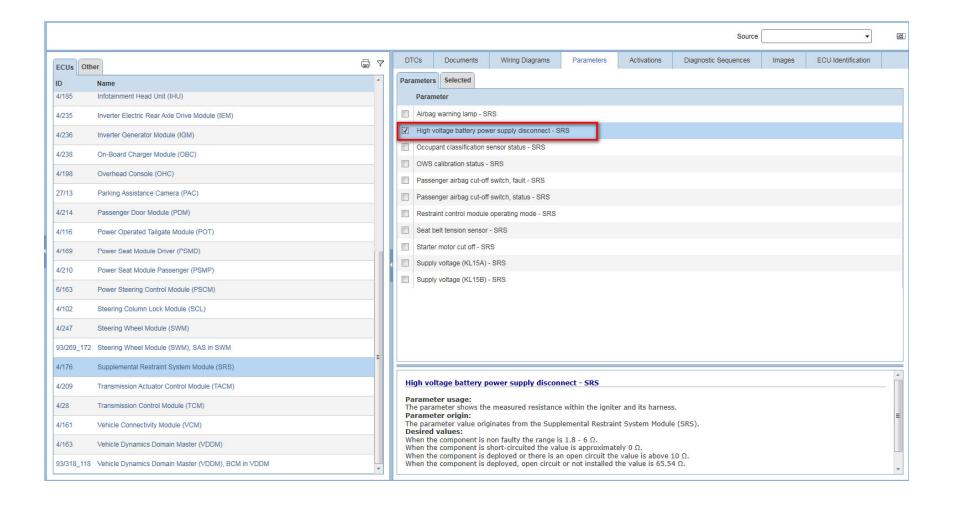
## Terminal replacement:

- Replace the terminals using part number 31409245.
- Follow the instructions in Vida for joining cables.
- Vida -> Information -> Repair -> Cleaning, Inspection and Adjustment -> 3 Electrical System -> 37 Cables and fuses -> 371 cables -> Joining cables
- Once the cables are joined install the new terminals into connector 1-4 and reinsert the locking tab.

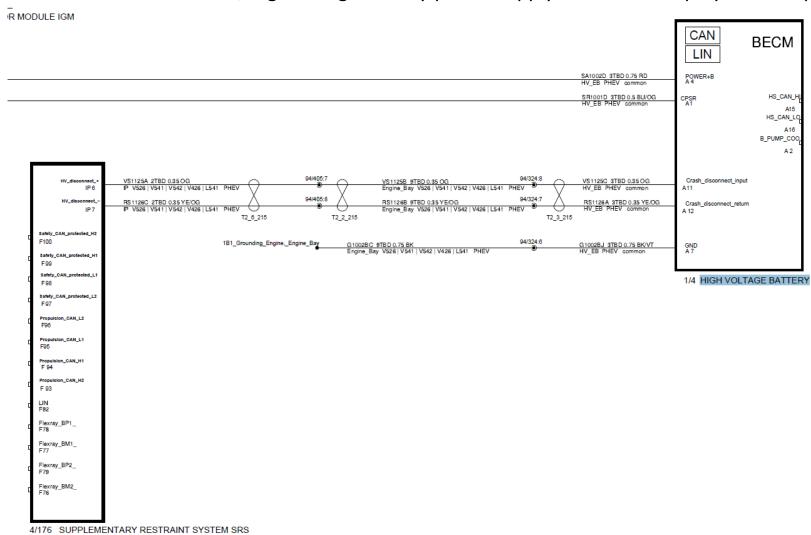


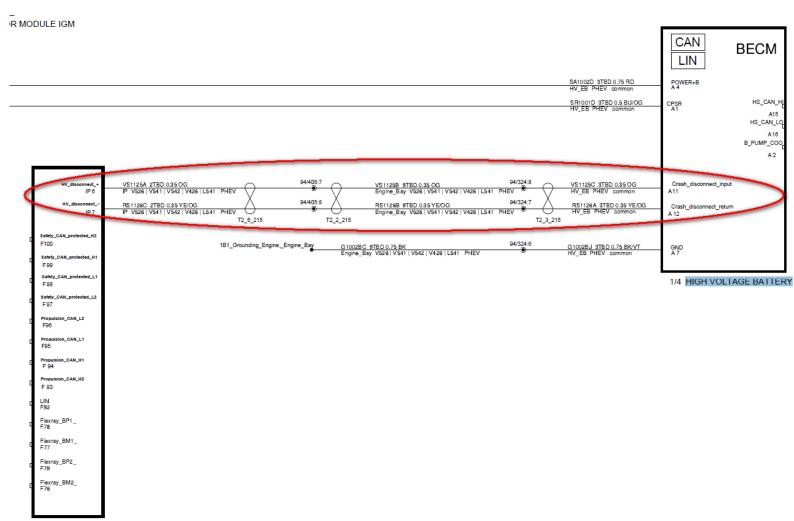


## VIDA, diagnostic service



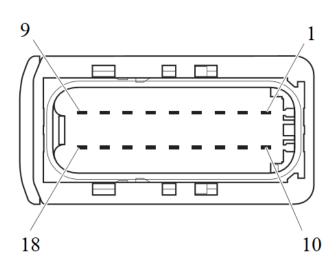
# DTC SRS-B15381B, High voltage battery power supply disconnect deployment loop control

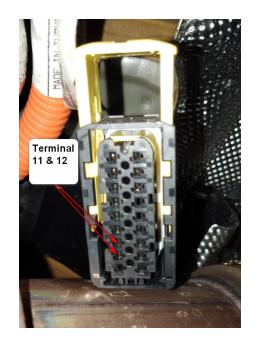




4/176 SUPPLEMENTARY RESTRAINT SYSTEM SRS

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





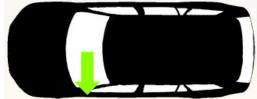
# PHEV INLINE IP ENGINE BAY





94/405 <u>Connector pno</u> 31409161

Position in vehicle





94/324 <u>Connector pno</u> 31344076

Position in vehicle

