
Mounting bolt of HV connection to HV battery broken during installation

Topic number	LI54.10-P-049523
Version	1
Design group	54.10 Battery, voltage supply, voltage converter
Date	05-17-2010
Validity	Models 221.095 and 221.195 (HYBRID)
Reason for change	
Reason for block	

Complaint:

The mounting bolt at the HV connection to the HV battery shears off when retightened.

Cause:

Excessive stress on mounting bolt due to failure to comply with tightening torque of 5 Nm.

Remedy:

Replacement of mounting bolt:

1. Perform power disconnect - AR54.10-P-1150SXH.
2. Unplug HV connector.
3. Unscrew HV connection. To do this, unscrew the six mounting bolts (T10 Torx socket) of the housing (see attachment 1).
4. Remove housing cover.
5. Remove retaining ring of bolt.

Caution: The sealing surface of the connector housing must not be damaged!

6. Remove defective bolt and push in new bolt.
7. Install new retaining ring (from repair kit) (see attachment 2) and check for correct seating.

Caution: The sealing surface of the connector housing must not be damaged!

8. Check seal of housing lower section for correct seating (see attachment 3).
 9. Bolt housing upper section onto housing lower section (tightening torque: 1 Nm). Use six new bolts from the repair kit.
 10. Connect HV connection at HV battery and screw down.
- Caution: Do not exceed the specified tightening torque of 5 Nm!
11. Perform initial startup of the vehicle - AR54.10-P-1150SXH.

Attachments

File	Designation
HV Stecker 1_2.JPG	Unscrew bolted connection of connector housing (6 bolts) - Attachment 1
HV Stecker 31.JPG	Remove retaining ring of mounting bolt - Attachment 2
HV Stecker 4.JPG	Check housing seal for correct seating - Attachment 3

Symptoms

Overall vehicle / Wiring / Cable damaged/faulty

Parts

Part number	Designation	Quantity	Note	EPC net	Non-EPC
A0005423373	Lock repair kit	1	Repair kit contains: 1x mounting bolt 1x retaining ring 6x Torx socket bolts (for connector housing)	X	

Attachments

File	Designation
ET Teil Befestigungsschraube.JPG	Replacement part: mounting bolt (new)

WIS-References

Document number	Title	Note	Allocation
AR54.10-P-1150SXH	Carry out disable/initial start-up of high-voltage on-board electrical system		Remedy

Validity

Vehicle	Engine	Transmission
221.195	*	*







