



MODEL

E-Series	Model Description	Production Date	Affected Option Code
G01	X3 Sports Activity Vehicle (SAV)	From Start of Production	All US vehicles are equipped with Knee Air Bags as standard equipment
G02	X4 Sports Activity Coupe (SAC)		
F97	X3 M SAV		
F98	X4 M SAC		

SITUATION

A check control message for the restraint system appears. In the instrument cluster, the red air bag warning light lights up permanently.

One of the following fault codes is stored in the ACSM (air bag control unit):

930949 - Knee airbag, driver: short circuit to negative terminal

93094F - Knee airbag, front passenger: short circuit to negative terminal

CAUSE

The wiring harness going to the knee air bag may be rubbing against the support tube of the instrument panel.

CORRECTION

Locate the short circuit. Wrap the harness with tape if damage is minor. Replace the knee air bag wire pair from the ACSM to the knee air bag if wire is cut through. Apply felt tape to all contact areas specified.

PROCEDURE

Perform a vehicle test with ISTA. Expose the wiring harness of the affected knee air bag (recognizable from the fault code).

Check the wiring harness in the visible area for chafe marks and repair if necessary.

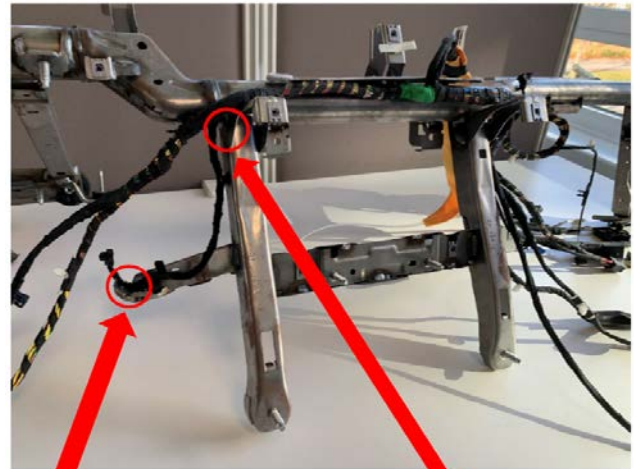
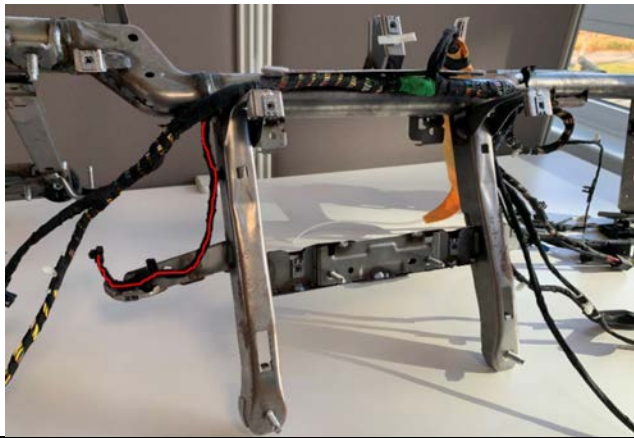
- Wrap harness with tape if damage to outer insulation is minor
- Replace knee air bag wire pair from ACSM to the knee air bag if center conductor (wire) is cut into. The center conductor of these wires is silver in color.

Additionally, check the unaffected/opposite side of the wiring harness as far as possible (in the visible area) for chafe marks.

Regardless of whether evidence of the wiring harness chafing is present or not, the following additional measures must be carried out.

- Apply felt tape to the 5 locations pictured below. For the affected locations 1, 4, 5 the felt tape must wrap around the edge of the metal.
- From the knee air bag connector, wrap the last **34 centimeters** (approx. 14”) back towards the wiring harness with an abrasion-resistant fabric tape. Additionally, wrap the 3 harnesses specified on the passenger side.

	Drivers knee air bag harness route. Wrap the last 34 centimeters back towards the wiring harness with an abrasion-resistant fabric tape (part number 61 13 6 925 452).
--	---



Location 1

Location 2

Drivers side locations 1 and 2.

If metal residue or welding residue are visible on the support tube, they must be removed.



Drivers side location 1.

Apply felt tape to location 1 on the support tube. (Felt tape part number **54 34 7 248 700**).

Glue the felt generously onto the support tube or to the corresponding edge.

Important: The felt must be glued around the edge!

Drivers side location 2.

Apply felt tape to location 2 on the support tube. (Felt tape part number **54 34 7 248 700**).

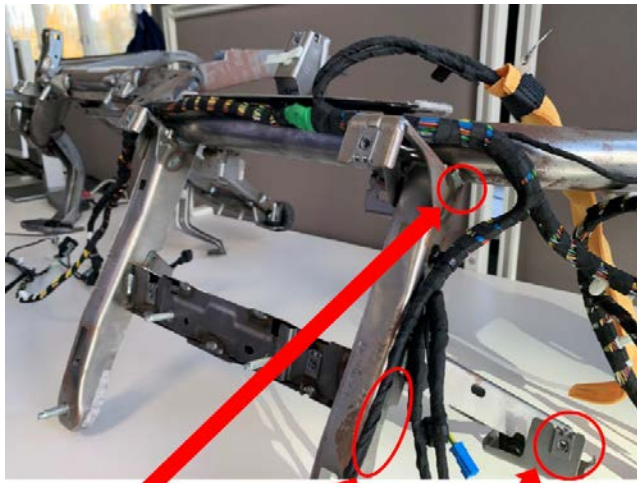
Glue the felt generously onto the support tube or to the corresponding edge.



Passenger side air bag harness route.
Wrap the 3 harnesses shows in red on the passenger's side with an abrasion-resistant fabric tape (part number: **61 13 6 925 452**).

Passenger side locations 3, 4, 5.

If metal residue or welding residue are visible on the support tube, they must be removed.



Location 3

Location 4

Location 5



Passenger side location 3.

Apply felt tape to location 3 on the support tube. (Felt tape part number **54 34 7 248 700**).

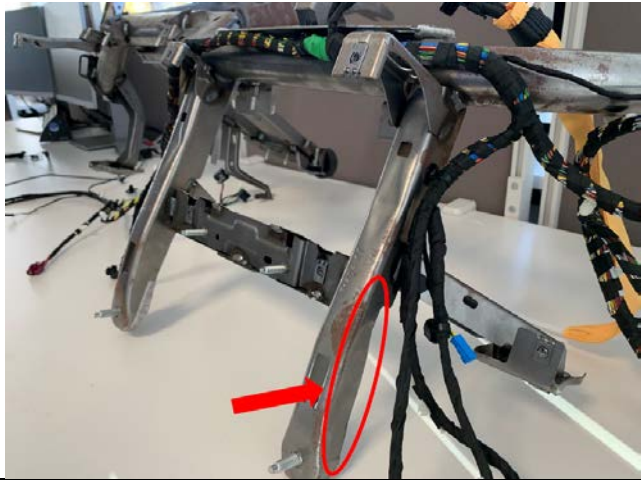
Glue the felt generously onto the support tube or to the corresponding edge.

Passenger side location 4.

Apply felt tape to location 4 on the support tube. (Felt tape part number **54 34 7 248 700**).

Glue the felt generously onto the support tube or to the corresponding edge.

Important: The felt must be glued around the edge!



Passenger side location 5.
 Apply felt tape to location 5 on the support tube. (Felt tape part number **54 34 7 248 700**).
 Glue the felt generously onto the support tube or to the corresponding edge.
 Important: The felt must be glued around the edge!

PARTS INFORMATION

When applicable, obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number	Description	Quantity
54 34 7 248 700	Felt strip, self-adhesive (130x40x3 mm)	Sublet as needed
61 13 6 925 452	Fabric adhesive tape abrasion resistant (25 mm)	As needed

CLAIM INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

Defect Code:	6111147900	Wiring harness, operating area / instrument panel incorrect connection /contact
---------------------	-------------------	--

Refer to AIR for the corresponding flat rate unit (FRU) allowance.

Labor Operation	Description	Labor Allowance
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		

00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Support voltage of the vehicle electrical system / recharge vehicle electrical system battery	Refer to AIR

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006, or exclude (including 61 21 528) when the Vehicle Test is included in another repair.

And, as necessary:

Labor Operation	Description	Labor Allowance
61 00 006*	Performing vehicle diagnosis – test module	Work time (WT)
Or		
00 58 500*	Diagnosis Worktime Flat Rate (See below)	2 FRU
And:		
72 12 504	Removing and installing/replacing airbag module for driver's knee protection	Refer to AIR
And/or:		
72 12 506	Removing and installing/replacing airbag module for passenger knee protection	Refer to AIR
And, as necessary:		
61 99 000	Work time without specification / vehicle electrical system to perform the additional measures	WT

Work time labor operation codes 61 00 006, 00 58 500 and 61 99 000 are not considered a Main labor operations.

Based on which one applies to your center, please refer to **SI B01 01 20** or **B01 07 20** for the applicable procedure for documenting, claiming, and explaining, on the RO and in the claim comments, your diagnosis work time (WT), job/repair work time (WT), and the vehicle repairs your center performed, unless otherwise required by State law.

And, as needed:

Sublet – Bulk Materials (RO and Claim Comments Required)

Sublet Code 4	See the sublet reimbursement calculations below	Reimbursement for the repair-related bulk materials (Do not use the BMW part numbers for claim submission)
----------------------	---	--

Sublet reimbursement calculation for claiming the applicable repair-related bulk materials (BMW part numbers) is at the dealer net price amount for the quantities used plus your center's handling.

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Please contact the Warranty department by either using the Live Chat that's available in the Warranty Documentation Portal or through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections
Parts inquiries	Submit an IDS ticket to the Parts Department