



SIB 65 20 22

2022-11-30

KNEE AIR BAG CHECK CONTROL MESSAGE

MODEL

E-Series	Model Description	Production Date	Affected Option Code
G20	3 Series Sedan	From Start of Production to October 26, 2021	All US vehicles are equipped with Knee Air Bags as standard equipment
G22	4 Series Coupe		
G23	4 Series Convertible		
G26	4 Series Coupe		
G42	2 Series Coupe		
G80	M3		
G82	M4		
G83	M4 Competition		

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
- 93094C** - Knee airbag driver's side: Resistance too great
- 930952** - Knee airbag, front passenger: Resistance too great

CAUSE

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

CORRECTION

Remove the center console to access the ACSM control module.

Remove the knee air bags on **both sides** of the vehicle.

This gives sufficient access to perform this repair.

The dashboard cover does not need to be removed.

The knee air bag harnesses end connectors are cut off and the wiring taped back to the harness.

Run the new air bag repair wiring harnesses from the ACSM control module to both knee air bags.

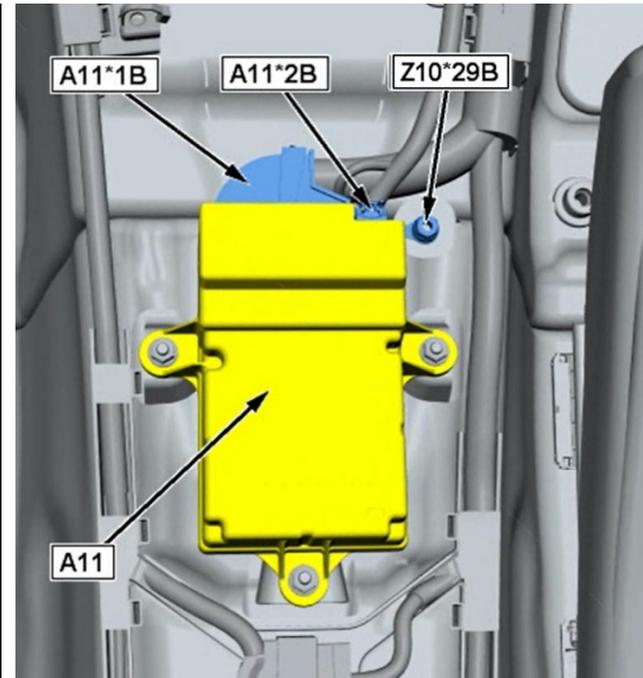
The replacement harnesses do not need to follow the same exact routing path as the original.

Both replacement harnesses are to be installed, even if there is only a fault showing for one side.

PROCEDURE

1- Perform a vehicle test with ISTA.

	2- Remove the center console as per Repair Instructions 51 16 165 to access the Air Bag Control Module A11 (ACSM) wiring connector (A11*2B).
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Check the ACSM module for signs of corrosion within the electrical connectors.

3- Follow **Repair Instructions 72 12 004** to remove the **driver's knee air bag**.

- Unplug the connector (**B8*1B**) on the knee air bag on the driver's side
- Cut the knee air bag wiring harness near the connector and tie back the cut wiring with a cable strap

4- Follow **Repair Instructions 72 12 006** to remove the **passenger's knee air bag**.

- Unplug the connector (**B77*1B**) on the knee air bag on the passenger's side
- Cut the knee air bag wiring harness near the connector and tie back the cut wiring with a cable strap
- **The repair wiring will be run together with the additional harness protection addressed in the next steps**
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5- Apply felt tape to the location pictured on the passenger side.
 Glue the felt generously onto the support tube or to the corresponding edge.
 (Felt tape part number **54 34 7 248 700**).
 Important: The felt must be glued around the edge!

6- Apply felt tape to the location pictured on the passenger side.

The top area is behind the dashboard cover but can be accessed once the passenger knee air bag has been removed. The lower area is the same pictured above.



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

7- The driver knee air bag wiring should be protected from chafing at the dash support bracket.
Glue the felt generously onto the support tube or to the corresponding edge.
(Felt tape part number **54 34 7 248 700**).



Important: The felt must be glued around the edge!

8- Install felt tape in any other potential chafe location.

Unplug the wiring connector from the ACSM (**A11*2B**).

Reference **Wiring Diagram 'Airbag firing circuits' SP0000063664** and **confirm the wire color and pin number BEFORE cutting these 4 wires at the ACSM connector.**

9- Cut the 4 wires for the knee air bag wiring harnesses near the ACSM connector and tie back the 4 cut wires with a cable strap.

- ACSM Pin 25 (**A11*2B**) goes to pin 1 of driver knee air bag (**B8*1B**).
- ACSM Pin 20 (**A11*2B**) goes to pin 2 of driver knee air bag (**B8*1B**).

- ACSM Pin 5 (**A11*2B**) goes to pin 1 of passenger knee air bag (**B77*1B**).
- ACSM Pin 10 (**A11*2B**) goes to pin 2 of passenger knee air bag (**B77*1B**).

Then pin 2 repair cables into the airbag control unit connector (**A11*2B**).

Wrap the knee wiring harnesses with an abrasion-resistant fabric tape (part number **61 13 6 925 452**).

Route one repair harness to the knee airbag on the driver's side and the other to the knee air bag on the passenger's side. The replacement harness does not need to follow the same exact path as the original.

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 considers specific equipment and/or options.

Part Number	Description	Quantity
61 11 5 A7B 939	Passenger side knee air bag repair harness	1
AND		
61 11 5 A7B 940	Drivers side knee air bag repair harness	1
AND		
61 13 6 925 452	Fabric adhesive tape abrasion resistant (25 mm)	As needed

Bulk Materials - Sublet

54 34 7 248 700

Felt strip, self-adhesive (130x40x3 mm)

Sublet as needed

CLAIM INFORMATION

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

Defect Code:	6112900300	G2x G4x G8x Check Control message, restraint system (wiring harness, knee airbag)
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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:		
72 12 506	Removing and installing/replacing airbag module for passenger knee protection	Refer to AIR
And:		
51 16 665	Completely removing and installing center console	Refer to AIR
And:		
00 72 587	Install repair cable of left or right knee airbag (Associated work, after vehicle diagnosis) (center console removed)	4 FRU
And:		
00 72 587	Install repair cable of left or right knee airbag for the other side (Associated work, after vehicle diagnosis) (center console removed)	4 FRU

Work time labor operation codes 61 00 006 and 00 58 500 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)

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Sublet Code 4	Up to \$5.00	Reimbursement for the repair-related bulk material (Do not use the BMW part number for claim submission)
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Sublet reimbursement calculation for claiming the applicable repair-related bulk material (BMW part number) is at the dealer net price amount for the quantity 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.

FEEDBACK REGARDING THIS BULLETIN

Technical Feedback	To submit feedback for the technical topics of this bulletin: Submit your feedback in the rating box at the top of this bulletin
Warranty Feedback	To submit feedback for the CLAIMS section of this bulletin: Submit an IDS ticket to the Warranty Department, or use the chat available in the Warranty Documentation Portal
Parts Feedback	To submit feedback for the PARTS section of this bulletin: Submit an IDS ticket to the Parts Department