



SIB 65 02 22

2023-08-16

KNEE AIR BAG CCM G05 VARIANT WIRE HARNESS REPAIR

This Service Information Bulletin (Revision 5) replaces SI B65 02 22 **dated November 2022**.

What's New:

- SIB title changed
- Correction and Claim Information sections updated, under-dash panel removal labor ops added, the knee air bags do not need to be removed for this repair.

MODEL

E-Series	Model Year	Model Description	Production Dates	Affected Option Code
F95	2020	X5 M Sports Activity Vehicle (SAV)	November 13, 2019, to March 22, 2020	All US vehicles are equipped with Knee Air Bags as standard equipment
F96	2020	X6 M Sports Activity Coupe (SAC)	November 13, 2019, to March 27, 2020	
G05	2020	X5 sDrive40i (SAV)	August 02, 2019, to March 27, 2020	
G05	2019 to 2020	X5 xDrive40i (SAV)	March 19, 2018, to March 27, 2020	
G05	2019 to 2020	X5 xDrive50i (SAV)	July 12, 2018, to March 26 2020	
G05	2019 to 2020	X5 xDrive45e (SAV)	June 04, 2018, to December 05, 2019	
G05	2020	X5 M50i (SAV)	August 02, 2019, to March 27, 2020	
G06	2020	X6 sDrive40i Sports Activity Coupe (SAC)	October 12, 2019, to March 26, 2020	
G06	2020	X6 xDrive40i (SAC)	July 15, 2019, to March 27, 2020	
G06	2020	X6 M50i (SAV)	July 17, 2019, to March 26, 2020	
G07	2019 to 2020	X7 xDrive40i (SAV)	July 10, 2018, to March 27, 2020	
G07	2019 to 2020	X7 xDrive50i (SAV)	July 10, 2018, to March 26, 2020	
G07	2020	X7 M50i (SAV)	August 02, 2019, to March 26, 2020	

SITUATION

A check control message (CCM) for the restraint system (Air bag) 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

Over time, the wiring harness going to the knee air bag(s) can rub against the metal support tubes for the instrument panel, chafing and damaging the wiring.

CORRECTION

Remove the center console to access the ACSM control module.

Remove the under-dash trim panels on both the driver's and passenger's sides.

This gives sufficient access to perform this repair.

The dashboard cover does not need to be removed.

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

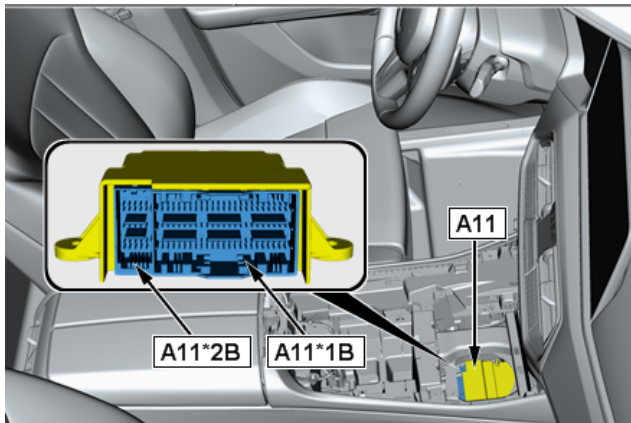
The replacement harnesses do not need to follow the same exact routing path as the original.

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

Apply felt tape to the edge of the center console support to protect the ACSM wiring.

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**).

Check the ACSM module for signs of corrosion within the electrical connector.

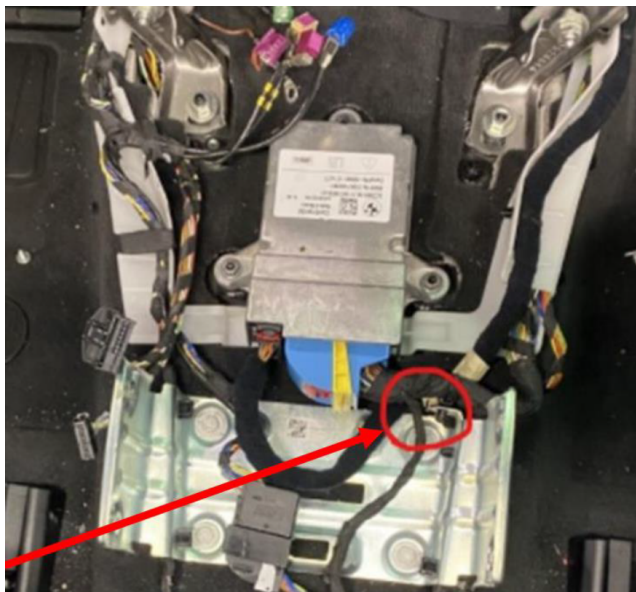
3- Follow **Repair Instructions 51 45 184** to remove the under-dash trim panel on the driver's side.

- 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 51 45 195** to remove the under-dash trim panel on the passenger side.

- 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 in conjuncture with additional harness protection addressed in the next steps.**

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



6. Cover the edge of the center console support (the edge inside the circle) with felt tape (part number **54 34 7 248 700**).

Check the ACSM module for signs of corrosion within the electrical connectors.

7- Reference **Wiring Diagram 'A11 Crash safety module SP0000064078'** and **confirm wire color and pin number BEFORE cutting these 4 wires at the ACSM connector.**

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 air bag control unit connector (**A11*2B**).

8- Wrap the harness of the knee air bag on the driver's side and passenger's side with an abrasion-resistant fabric tape (part number **61 13 6 925 452**).

9- Route one repair harness to the knee air bag 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.

10- The knee air bag wiring should be protected from chafing on any support bracket with felt tape (Felt tape part number **54 34 7 248 700**).

Important: The felt must be glued around the edge!

PARTS INFORMATION

To determine the part number that applies to the specific vehicle being repaired, enter the VIN/chassis number into either ETK or AIR, this will consider the specific equipment and/or options that are fitted to the vehicle.

Part Number	Description	Quantity
61 12 5 A56 386	Repair wiring for airbag system (Knee air bag)	2
54 34 7 248 700	Felt strip, self-adhesive (130 x 40 x 3 mm)	Up to 4/cut to size

Bulk Material - Sublet

Part Number	Description	Quantity
61 13 6 925 452	Fabric adhesive tape abrasion resistant (25 mm x 25 m, DN price = 1 meter)	Up to \$5.00

CLAIM INFORMATION

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Defect Code:	6112900300	G0x F9x Check Control message, restraint system (wiring harness, knee airbag)
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Obtain the flat rate unit (FRU) allowances for the following that applies.

Labor Operation	Description	Labor Allowance
00 00 006	Carrying out vehicle test (Main work)	As applicable
Or:		
00 00 556	Carrying out vehicle test (Plus work)	As applicable
And:		
61 21 528	Supporting voltage of the vehicle electrical system / recharging vehicle battery	As applicable

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*	Carrying out vehicle diagnosis, ABL (Work time)	WT
Or		
00 58 500*	Diagnosis Worktime Flat Rate (See below)	2 FRU
And:		
51 16 665	Completely removing and installing center console	As applicable
And:		
51 45 684	Removing and installing trim panel for pedal assembly	As applicable
And:		
51 45 695	Removing and installing instrument trim panel trim at bottom right	As applicable
And:		
00 72 587	Install repair cable of left or right knee airbag for one side (Associated work, after vehicle diagnosis) (center console removed)	4 FRU
And again:		
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

And, when applicable for the:

G07 (X7 Models)

Labor Operation	Description	Labor Allowance
51 16 998	Additional work with cup holder, rear (with 51 16 665)	As applicable

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

BMW Group's AIR Application Resource for Flat Rate Labor Operation Codes

To obtain the corresponding flat rate unit (FRU) allowance information from the BMW Group' AIR application resource, start by entering the Chassis Number, which consists of the VIN's last seven (7) characters or use the full VIN. Click on the "Search" button, and then enter the applicable flat rate labor operation in the FR code field

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*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 Material (RO and Claim Comments Required)

Sublet Code 4	Up to \$5.00	Reimbursement for the repair-related bulk material (Fabric adhesive tape, 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 for Fabric adhesive tape) 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

