FALSE WARNINGS THAT THE FRONT PASSENGER SEAT IS OCCUPIED WITHOUT THE SEAT BELT BUCKLED

New information provided by this revision is preceded by this symbol 🔄.

This Service Information bulletin supersedes SI B72 04 17 dated January 2019

What's new:
• New Diagnosis Chart / Flowchart for F90/G05 attached

MODEL

<table>
<thead>
<tr>
<th>G12 (7 Series)</th>
<th>G30 (5 Series)</th>
<th>G32 (6 Series Gran Turismo)</th>
<th>G01 (X3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicles produced to July 2018</td>
<td>Vehicles produced to July 2018</td>
<td>Vehicles produced to July 2018</td>
<td>Vehicles produced to July 2018</td>
</tr>
<tr>
<td>G02 (X4) Vehicles produced to July 2018</td>
<td>F90 (M5) Vehicles produced to August 2018</td>
<td>G05 (X5) produced from July 2018 to September 2018</td>
<td></td>
</tr>
</tbody>
</table>

SITUATION
Acoustic and visual warnings indicate that the front passenger seat is occupied and the seat belt is not fastened, when the seat is actually unoccupied.

If the situation is currently present, sit in the seat and move the seat to a different position then the POL (Passenger Occupancy Light) light will function correctly.

In some cases the Air bag Warning Light was illuminated. Advanced Crash Safety Module (ACSM) fault “930A1C - Front passenger seat occupancy detection transmitting fault (moisture)” is stored.

CAUSE
1. Electronics (for example smart phones or laptops) are connected to the USB charging port or cigarette lighter and placed on the seat.
2. The seat was wet (e.g. very high humidity, spilled liquids or rain).
3. Faulty plug connection to Evaluation Electronics CIS (Capacitive Interior Sensing).
4. Excessive spacing between seat mat sensor signal wires and their grounding shield sleeve.

CORRECTION
• Drying the seat mat due to moisture.
• If there is no moisture, secure loose cables and install 2 cable ties
PROCEDURE
For conditions that are similar to the situation described above:

1. Verify with customer that no objects were lying on the seat that could have caused the warnings.

   Note: Electronic devices that are placed on the front passenger seat, e.g. laptop computers, mobile phones, etc., could cause the front passenger airbag warning lamp to activate.

   This behavior occurs primarily with devices that are connected to the vehicle electrical system via a USB cable or other charger adapter.

   In vehicles with an acoustic seat belt warning, this could cause the warning signal to sound.

2. Moisture on the seat surface can also cause a faulty seat occupancy detection. In this case ACSM fault 930A1C will be stored. Check for signs of moisture. If moisture is found, then dry the mat and clear the fault. If no moisture is found proceed to the next step.

3. If step 1 and 2 do not identify the cause of the warnings, access the label on the seat mat harness and follow the attached diagnosis flow chart. If the flow chart recommends installation of 2 cable ties, proceed to step 4.

   The example to the left shows an AI index of 01

4. Install 2 cable ties on the seat wiring harness as shown in the attached repair instructions and in this video https://tinyurl.com/V520218

   a. Set the cable tie tightening tool adjustment to 3.75 when securing the cable ties.

   b. The cable ties ONLY GO AROUND THE WIRING HARNESS. Do not attach the cable ties to the seat frame.

   c. The purpose of these two cable ties is to tighten the ground shield sleeve around the two signal wires.

5. Check the validity of the repair by ensuring no faults or check control messages are displayed.

PARTS INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>61 13 8 377 065</td>
<td>Cable tie</td>
<td>2</td>
</tr>
<tr>
<td>Refer to ETK</td>
<td>CIS seat mat</td>
<td>1 if needed</td>
</tr>
</tbody>
</table>

https://www.bmwtis.net/tiscode/cgi-bin/bulletin.aspx?sic_path=/tsb/bulletins/htm_store/492...
Note: Replacing the CIS electronics or the ACSM module will not correct this issue.

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

<table>
<thead>
<tr>
<th>Defect Code:</th>
<th>6577081400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Operation:</td>
<td>Labor Allowance:</td>
</tr>
<tr>
<td>65 99 000</td>
<td>4 FRU</td>
</tr>
<tr>
<td>Or:</td>
<td></td>
</tr>
<tr>
<td>65 99 000</td>
<td>2 FRU</td>
</tr>
<tr>
<td>Or:</td>
<td></td>
</tr>
<tr>
<td>52 14 903</td>
<td>Refer to KSD/AIR</td>
</tr>
<tr>
<td>And, as applicable:</td>
<td></td>
</tr>
<tr>
<td>52 14 982</td>
<td>Refer to KSD/AIR</td>
</tr>
</tbody>
</table>

Posted: Tuesday, January 15, 2019

ATTACHMENTS
View PDF attachment B720417_Diagnosis_Chart.

View PDF attachment B720417_Repair_Procedure.

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Start G12

Check if Seat Mat Label Index (AI) >= 10 (Basic) / 11 (Comfort Seat with memory)?

- yes → Create Puma Case including picture of Seat Mat Label
- no →

   Check if cable ties are attached to cable as described in SI B72 04 17?

- yes → Replace Seat Mat
- no →

   Check if New Seat Mat Label Index (AI) >= 10 (Basis) / 11 (Comfort Seat with memory)?

- yes → End.
- no → Attach cable ties as described in SI B72 04 17
Start G30 / G32

Check if Seat Mat Label Index (AI) >= 11 (Comfort Seat with memory) / 05 (Sport)?

Create Puma Case including picture of Seat Mat Label

Check if cable ties are attached to cable as described in SI B72 04 17?

Replace Seat Mat

Attach cable ties as described in SI B72 04 17

Check if New Seat Mat Label Index (AI) >= 11 (Comfort Seat with memory) / 05 (Sport)?

End.
Start G05 / F90

Check if Seat Mat Label Index (AI) >= 05

- yes: Create Puma Case including picture of Seat Mat Label
- no: Check if cable ties are attached to cable as described in SI B72 04 17?

- yes: Replace Seat Mat
- no: Check if New Seat Mat Label Index (AI) >= 05

- no: Attach cable ties as described in SI B72 04 17
- yes: End.
Start G01 / G02

Check if Seat Mat Label Index (AI) >= AI06?

- yes: Create Puma Case including picture of Seat Mat Label
- no: Attach cable ties as described in SI B72 04 17

Check if cable ties are attached to cable as described in SI B72 04 17?

- yes: Replace Seat Mat
- no: Check if New Seat Mat Label Index (AI) >= AI06?

- no: Attach cable ties as described in SI B72 04 17
- yes: End.
The SI B72 04 17_Attachment supersedes dated February 2018
New information provided by this revision is preceded by this symbol UPDATE

**PASSENGER OCCUPANCY DETECTION ERROR CORRECTION**

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1.</td>
<td>Move the front seat to its highest position.</td>
</tr>
<tr>
<td>2.</td>
<td>Detach the lower front seat trim.</td>
</tr>
<tr>
<td>3.</td>
<td>Disconnect the Evaluation Electronics (CIS) plug connection.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
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<tbody>
<tr>
<td>4.</td>
<td>Check the plug for conditions resulting in possible poor electrical connection – corrosion, bent pins, etc. – removing control unit if needed, as shown.</td>
</tr>
<tr>
<td>5.</td>
<td>Repair any connection problems.</td>
</tr>
<tr>
<td>6.</td>
<td>Securely re-install control unit, if removed.</td>
</tr>
<tr>
<td>7.</td>
<td>Reconnect plug into CIS.</td>
</tr>
</tbody>
</table>
8. Secure the loose clip attached to cables, as shown.

For cable tie position review the: https://tinyurl.com/V520218

First cable tie position as shown in above photo.

Do not attach the cable tie to any other seat parts. Just around the cable.
9. With the tool showing in the picture tie the cable only around the harness.

10. Re-attach seat trim panel.
11. Verify free motion of seat belt and seat adjustment.
12. Verify correct operation of occupant detection system. There should be no fault memory entries for airbag warnings.
13. Check the POL function