



SIB 66 21 19

2019-10-16

LDW (LANE DEPARTURE WARNING): STEERING WHEEL VIBRATION NOT STRONG

MODEL

| E-Series | Model Description | Production Date | Affected Option Code / Engine |
|----------|----------------------------|--------------------|---|
| G01 | X3 Sports Activity Vehicle | Up to July 1, 2019 | 5AS – Driving Assistant or 5AT – Driving Assistant Plus, but without option 710 – M Leather Steering wheel |
| G02 | X4 Sports Activity Coupe | | |

SITUATION

LDW steering wheel vibration is perceived as being not strong enough, even with the strongest setting selected via the iDrive menu.

CAUSE

Software in the vibration actuator and /or steering wheel component.

CORRECTION

- Perform a software update dependent on the current I-level
 - Perform Test Plan AT6131_BDC11LRE,
- and /or
- Replace the vibration generator

PROCEDURE

1. Verify Intelligent Safety setting for vibration level is set to “strong”.
2. Duplicate issue via test drive.
3. Determine the current I-level of the vehicle via the Key Read or AIR.
 - a. If it is lower (older) than S15A-19-03-500, program and encode the vehicle before moving to step 4
 - b. If it is at S15A-19-03-500 or higher, proceed as outlined below
4. Before performing the test plan for the first time the following must be done:
 - a. Disconnect the ICOM
 - b. Allow the vehicle to enter sleep mode
 - c. Vehicle must sleep for 5 mins

Note: Vehicle is asleep when the illumination of the hazard light button backlighting goes out.

5. Connect the ICOM and start new session.

6. Using text search, find test plan by searching “Steering wheel module”.

a. Path: Vehicle management/ Trouble shooting/ Text search

7. Select test plan titled “steering wheel electronics” from the result list.

a. Test plan titled when open “AT6131_BDC11LRE”

b. Display test plan and perform option for “checking vibration actuator”

c. Run this test plan at least 8 times in succession

8. Take vehicle for test drive and verify functionality.

9. If the above steps failed to improve functionality, then-

a. Replace the vibration actuator

b. Perform step 7 and 8 again

c. Test drive and verify functionality

Always connect a BMW-approved battery charger/power supply (SI B04 23 10) when performing programming.

PARTS INFORMATION

Per Procedure step # 9 only:

| Part Number | Description | Quantity |
|--------------|---------------------|----------|
| Refer to ETK | Vibration generator | 1 |

Other small parts such as one-time screws, nuts and seals, which must be replaced according to the ISTA repair instructions/ETK, must be selected from the Electronic Parts Catalogue according to the respective vehicle type and invoiced under the corresponding repair defect code.

WARRANTY INFORMATION

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

| Defect Code: | 6137141500 | Vibration motor/vibration agitator in steering wheel permanent malfunction |
|------------------------|---|--|
| 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 | Connect an approved battery charger/power supply (indicated in AIR as Charging 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.

And, if the:

Vehicle i-level is lower (older) than 19-03-500

| Labor Operation | Description | Labor Allowance |
|-----------------|--------------------------------------|-----------------|
| 61 00 730 | Programming/encoding control unit(s) | Refer to AIR |

Or, if the:

Vehicle i-level is already at 19-03-500 or higher

| Labor Operation | Description | Labor Allowance |
|-----------------|---|-----------------|
| 61 00 006 | Performing vehicle diagnosis – test module (AT6131_SP18LRE per the instruction above) | Work time (WT) |
| And: | | |
| 61 31 233 | Removing / replacing vibration actuator for LDW | Refer to AIR |

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

Work time labor operation code 61 00 006 is not considered a Main labor operation; however; it does require individual punch times and an explanation on the repair order and in the claim comments section.

During the same workshop visit, if a vehicle also requires another Technical Campaign or repair that also includes programming and encoding the control units, the programming procedure may only be invoiced one time.

Programming and Encoding - Vehicle Control Units (RO and Claim Comments Required)

The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software i-level. If one or more control module failures occur during this programming procedure:

Please claim this consequential control module-related repair work under the defect code listed in this bulletin with the applicable AIR labor operations.

Please explain this additional work (The why and what) on the repair order and in the claim comments section.

For control module failures that occurred prior to performing this programming procedure:

When covered under an applicable limited warranty, claim this control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis with separate punch times).