



SIB 12 05 22

2023-04-03

DELIVERY STOP: REPLACING THE FRONT ELECTRIC DRIVE UNIT

This Service Information bulletin (Revision 4) supersedes SI B12 05 22 dated December 2022

What's New:

- Parts information

Please perform the procedure outlined in this Service Information on all affected vehicles before customer delivery. In the event the customer has already taken delivery of the vehicle, please perform the procedure the next time the vehicle is in the shop.

| | |
|--------------------------|--------------------------------|
| <input type="checkbox"/> | THIS REPAIR IS MOBILE FRIENDLY |
|--------------------------|--------------------------------|

MODEL

| E-Series | Model Description | Production Date |
|----------|--|-------------------------------------|
| G26 | i4 M50 Gran Coupe Battery Electric Vehicle (BEV) | October 6, 2022 – November 10, 2022 |
| G70 | i7 xDrive60 Sedan (BEV) | October 5, 2022 – October 27, 2022 |

AFFECTED VEHICLES

Vehicles which require this Campaign to be completed will show it as "Open" when checked either in AIR, the "Service Menu" of DCSnet (Dealer Communication System), ISPA Next or Warranty Vehicle Inquiry.

Do not deliver to a customer, a New, Certified Pre-Owned or Used vehicle subject to a Delivery Stop, until the vehicle is repaired. Do not use or sell replacement equipment/parts subject to a Delivery Stop.

SITUATION

BMW AG has issued a Delivery Stop (effective December 1, 2022) on certain Model Year 2023 BMW i4 and i7 vehicles that were produced between October 5, 2022 and November 10, 2022.

A bearing in the front electric drive unit could fail due to a manufacturing defect, resulting in a noise while driving.

CORRECTION

Replace the front electric drive unit.

PROCEDURE

Important Warning for Working on the High-Voltage (HV) systems on BMW Group vehicles:

Only properly trained personnel, who passed all applicable HV Technical Training Courses, should perform repairs which require disconnecting, or removal of High Voltage battery components on any Hybrid or Electric Vehicle. Work performed on High Voltage systems by unqualified persons may result in severe injury or damage to the vehicle. Additional safety information is found in Repair Instruction 61 00... "Observe safety instructions when handling electric vehicles".

Additional Information:

Scheduled Maintenance, or Quality Certification 1 (Pre-Delivery Inspection) on Electric or Hybrid vehicles does not require HV technical training.

Prior to disconnecting, or the removal of any HV component, the HV system needs to be disabled and secured (by means of the HV Disconnect Switch) by a properly trained technician, who has a

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minimum HV Qualification level after completing the Technical Training Course ST1824 (Alternative Drive Part 1). Once the vehicle's HV system is disabled (the "Blitz" - lightning bolt icon displayed in instrument cluster, see below), a technician without HV Certification may remove a HV component (e.g., EH Heater, EKK Compressor, EME Control Unit, et.), except for the High Voltage Battery.



High Voltage Battery removal and rework can be performed ONLY by a HV Specialist Technician (certified by the Technical Training Course ST1825 – Alternative Drive Part 2), AND with a HV Battery Certification level corresponding to a specific Electric or Hybrid vehicle (e.g., to repair GEN4 battery of G05 PHEV, certification from Technical Training Course "ST2006 – SP44 HV Battery" is required).

Therefore, to perform this SIB 12 05 22, a GEN5 battery Certification is required from Technical Training Course "ST2205 Generation 5 High-voltage" class).

The complete front electric drive unit is replaced; see repair instructions **12 35 521** "Replace front highly-integrated electric drive topology completely (after vehicle diagnosis)".

Important Note:

The replacement front electric drive unit comes pre-filled with fluid, eFluid transmission oil PN 83 22 5A1D718.

Contrary to the repair instructions, there is no need for a wheel alignment and replacement of the radial shaft seals on either affected model. The repair instructions will be updated accordingly with the next release.

PARTS INFORMATION

Important Note:

Only a very limited number of drive units are available at the start of this technical campaign, they are allocated by priority. A key read is required prior to entering a Recall IDS Ticket.

The removed drive unit must be returned as soon as possible as a special damaged component.

Parts list for replacing the complete drive unit G70-

| Part Number | Description | Quantity |
|---------------|---|----------|
| 33 30 6782246 | Hexagon screw with washer | 4 |
| 31 10 6872062 | Hexagon screw with washer | 4 |
| 32 30 6778609 | Torx bolt | 1 |
| 33 13 1214961 | Retaining ring | 1 |
| 31 20 6866022 | Shouldered bolt with compression spring | 2 |
| 31 10 6765451 | Combination nut | 2 |
| 31 10 6789333 | Outside torx bolt | 2 |
| 07 11 9904956 | Hexagon bolt | 2 |
| 34 10 6864424 | Torx screw with washer | 4 |
| 07 11 9904161 | Hexagon bolt with collar | 2 |
| 07 11 9906100 | Hexagon head collar bolt | 2 |
| 07 14 8835360 | Combination nut | 2 |
| 37 10 6789678 | Flanged hexagon nut | 2 |
| 07 14 7283812 | Speed nut | 2 |

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| | | |
|---------------|------------------------|----|
| 31 11 6899302 | Multi-purpose bolt | 10 |
| 12 33 5A57F64 | RP Electric Drive Unit | 1 |
| Or | | |
| 12 33 5A76E49 | RP Electric Drive Unit | 1 |
| 07 14 8837399 | ASA Bolt | 4 |
| 07 14 8840397 | ASA Bolt | 2 |

Parts list for replacing the complete drive unit G26-

| Part Number | Description | Quantity |
|---------------|---|----------|
| 33 30 6782246 | Hexagon screw with washer | 4 |
| 07 14 6885922 | Multi-purpose bolt ASA | 4 |
| 07 14 6899140 | Cage nut | 4 |
| 07 14 6897424 | Cage nut | 2 |
| 39 10 6865725 | Multi-purpose bolt | 4 |
| 07 14 8835104 | Multi-purpose bolt | 4 |
| 07 14 6875114 | Hexagon collar nut | 4 |
| 37 14 8851843 | Front attachment rod | 1 |
| 07 14 7575163 | Self-locking hexagon nut | 1 |
| 33 32 6768884 | Hexagon collar nut | 2 |
| 33 13 1214961 | Retaining ring | 1 |
| 31 20 6866022 | Shouldered bolt with compression spring | 2 |
| 22 31 9494177 | Hexagon bolt | 2 |
| 33 30 6787062 | Combination nut | 2 |
| 32 30 6778609 | Torx bolt | 1 |
| 12 33 5A57F64 | RP eDrive motor | 1 |

Bulk Materials - Sublet

| Part Number | Description | Quantity |
|---------------|---|-----------|
| 83 19 5A32851 | HT-12 Antifreeze RTU (Bulk 1/10 Liter) (Pre-mix) | As needed |
| Or: | | |
| 83 19 2468442 | BMW Antifreeze/Coolant (1 Gallon Concentrate) - HT-12 | As needed |

Part Retention

The parts replaced to perform and submit for this repair procedure are the property of BMW NA.

Your center is responsible for the proper identification, storage, and documentation of these parts. They must be held in a secure retention area until notification of claim payment is made by BMW NA through DCSnet.

If these replaced parts are requested to be returned, a corresponding DCSnet Part Return tag will generate.

Any requested parts that are not received by the WPRC in accordance with Section 6 of the Warranty Policy and Procedure Manual may be subject to debit.

CLAIM INFORMATION

During this workshop visit, the affected vehicle may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

When the above applies, submit for Work Package # 1 or # 2 below for replacing the electric drive unit (complete) and to perform and submit for updating the vehicle to the required I-level or higher

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For any other open programming and encoding Technical Campaigns, please be sure to also perform any additional before and/or after work (including attaching labels) that is required or close them as outlined in the corresponding Service Information Bulletin.

Reimbursement for this Action will be via normal claim entry utilizing the applicable work package information below and the part numbers listed above that apply.

| | | |
|---------------------|-------------------|---|
| Defect Code: | 0012930500 | G26 G70 BEV Replace electric front axle drive unit |
|---------------------|-------------------|---|

Completion before the first vehicle delivery to a customer or the vehicle is already in the workshop

| Work Pkg | Labor Operation | Description (Plus work) | Labor Allowance |
|----------|-----------------|--|-----------------|
| # 1 | 00 73 769 | Replacing the electric drive unit (complete) with programming and encoding the vehicle control units, includes Carrying out vehicle test (00 00 556/61 21 528) | Refer to AIR |

Or:

The vehicle arrives at your center and this Action shows open (No other Main work will be performed or claimed during this workshop visit)

| Work Pkg | Labor Operation | Description (Main work) | Labor Allowance |
|----------|-----------------|--|-----------------|
| # 2 | 00 73 188 | Replacing the electric drive unit (complete) with programming and encoding the vehicle control units, includes Carrying out vehicle test (00 00 006/61 21 528) | Refer to AIR |

Only one of the flat rate labor operation codes listed above can be used for claim submission and reimbursement. Also, only one Main work flat rate labor operation code can be claimed per workshop visit.

Claim Repair Comments

Only reference the SIB number and the work package (Pkg) number performed in the RO technician notes and the claim comments (For example: B12 05 22 WP 1), unless otherwise required by State law.

Sublet – Bulk Materials (RO and Claim Comments Required)

| | | |
|--------------------------------|---------------|--|
| Sublet Code 4 | Up to \$50.00 | Reimbursement for the repair-related bulk material (Do not use the BMW part number for claim submission) |
|--------------------------------|---------------|--|

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.

BMW Antifreeze/Coolant: Claim the corresponding sublet dollar amount for the quantity needed to replace what was drained. The one-gallon concentrate part number quantity for a 50/50 coolant/water solution.

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

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

This procedure automatically reprograms and encodes any vehicle control modules that do not have the latest software level.

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If one or more control modules fail during the reprogramming procedure, claim the required consequential repair work procedures to address this issue (including performing the IRAP Control Unit Recovery first as required, refer to the SIB in AIR) under the Defect Code in this bulletin with the labor operations in AIR that apply.

Please explain the additional work procedures that were performed (The why and the what) on the repair order and in the claim comments.

For covered repairs that address control module failures that occurred prior to performing this reprogramming procedure, claim this work with the Defect Code and labor operations (including the diagnosis that applies*) in AIR that apply.

*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.

Alternative Mobility Solution (AMS) for Vehicle Owners (RO and Claim Comments Required)

This Action repair qualifies for Alternative Mobility Solution (AMS) expense reimbursement, claim this item under the Defect Code noted above as follows:

Sublet Code 2 - Itemize the AMS sublet amount on the repair order and in the claim comment section.

Please refer to [SI B01 29 16](#) for additional information.

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 |

