

Service Information Bulletin

October 17, 2022

Electric Drives

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.

RECALL 22V-741: REPLACING REAR DRIVE UNIT (HEAT)

MODEL

E-Series	Model Description
I20	iX M60

AFFECTED VEHICLES

Vehicles which require this Recall 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.

SITUATION

It has been determined that a weld seam in the rear electric drive unit (HEAT XLR220) may not have been properly constructed.

CAUSE

In very rare cases, the weld seam may break due to strong acceleration. This is indicated by a sudden metallic noise from the rear drive area. Continuous driving is only possible or recommended at restricted speed.

CORRECTION

Replacement of rear drive unit (HEAT XLR220).

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 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).

Replace the rear electric drive unit as per repair instructions 12 35 531 – Replace rear highly-integrated electric drive topology

PARTS INFORMATION

Note on parts availability: At the start of the technical campaign, only a very limited number of parts is available. For this reason, the existing parts will be allocated by the service centre according to respective market requirement. Provision of the parts can take several weeks.

Only use and invoice the applicable part listed number below.

Part Number (P/N)	Description	Quantity
12 33 5A645E0	RP electric drive unit (220XLR)	1
33 17 6760336	Hexagon screw with washer (M14x1.5x133ZNS3)	4
33 32 6775040	Hexagon bolt with washer (M14x1.5x148)	4
61 27 9487464	Screw	4
33 13 1214961	Circlip (d=22.4)	2
33 30 6891268	Multi-purpose bolt	2
33 30 1544034	Eccentric screw (14x1.5x112 ZNS3)	2
33 55 6790913	Hexagon nut with collar (M10-10 ZNS3)	2
33 30 6861944	Hexagon bolt (M16x1.5x100)	2
07 11 9907136	Hexalobular socket screw (14x1.5x90-ZNS3)	2
34 20 6881294	BMW design clip	2
34 20 6850560	Hexagon bolt (M8X22)	4
07 14 6893779	ASA combination bolt (14x1.5x65 ZNS3)	4
31 20 6866022	Collar bolt with compression spring (M16x1.5x66)	2
07 12 9908011	Hexagon bolt with flange (M14x1.5x100)	2
33 30 6787062	Multi-purpose nut (M14x1.5-10ZNNIV)	2
07 14 8854416	Hexagon nut	6
33 30 6867271	Hex bolt (M14 x 1.5 x 84mm) rear suspension strut	2

Bulk Materials - Sublet

83 22 5A1D718	eFluid transmission oil (1 Liter)	1
83 19 2468442	HT-12 Coolant	Sublet as needed

Additionally, other small parts that are not specified above, such as one-time use screws, nuts, O-rings 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 special defect code.

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 be generated.

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.

After replacing the electric drive unit, select this open Technical Campaign (WP 1 or 3) for also updating the vehicle to the required I-level or higher

Please be sure to also perform any additional before and/or after work (including attaching labels) as required by the open campaigns on the vehicle. Close any other open programming and encoding Campaign repairs as outlined in the corresponding Service Information Bulletin.

As determined by the above, reimbursement for this Recall will be via normal claim entry utilizing the work package information below that applies.

Defect Code:	0012780500	I20 Replace eDrive motor
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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 73 571	Replacing the electric drive unit with programming and encoding the vehicle control units, includes carrying out vehicle test (00 00 556/61 21 528) and a KDS wheel alignment check and adjustment with a ride-height measurement, without load	147 FRU
Or:			
# 2	00 73 572	Replacing the electric drive unit (Programming and encoding the vehicle control units was performed in conjunction with another campaign/repair during the same workshop visit) and a KDS wheel alignment check and adjustment with a ride-height measurement, without load	138 FRU

Or:

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

Work Pkg	Labor Operation	Description (Main work)	Labor Allowance
# 3	00 73 033	Replacing the electric drive unit with programming and encoding the vehicle control units, includes Carrying out vehicle test (00 00 006/61 21 528) and a KDS wheel alignment check and adjustment with a ride-height measurement, without load	140 FRU

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 Defect Code and the work package (Pkg) number performed in the RO technician notes and the claim comments (For example: DC 0012780500 WP 1), unless otherwise required by State law.

And:

Sublet – Bulk Materials (RO and Claim Comments Required)

Sublet Code 4	Up to \$50.00	Reimbursement for the repair-related bulk materials (Do not use the BMW part numbers for claim submission)
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Sublet reimbursement calculation for claiming the applicable repair-related bulk materials (BMW part numbers) is at the dealer net price amount for the quantities used plus your center’s handling.

BMW Antifreeze/Coolant: Claim the corresponding sublet dollar amount for the quantity needed to replace what was drained with 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.

And, if applicable:

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 I-level.

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 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 Service 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.

Reimbursement of Prior Customer-Pay Repairs (TREAD Act)

Based on the issue and the age of the Affected Vehicles being addressed by this Safety Recall Campaign, a reimbursement request for a qualifying prior customer-pay repair is not likely.

However, if you do receive a reimbursement request from a customer for a prior repair that may qualify, please contact the Warranty department (include a legible copy of the invoice) through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections. The Warranty department will review and respond to your inquiry accordingly.

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