



SIB 33 01 23

2023-04-07

CHECK CONTROL MESSAGE (CCM) ID 496, STEERING BEHAVIOR CHANGED

 THIS REPAIR IS MOBILE FRIENDLY

MODEL

E-Series	Model Description	Production Date	Affected Option Code
I20	iX Sports Activity Vehicle	From start of production (Nov. 2021)	02VH Integral Active Steering

SITUATION

Customer receives CCM ID 496 “Steering behavior changed (Integral Active Steering)”, and the vehicle turning radius has increased noticeably.

CAUSE

Software errors in the electrical system I-level data prior to I021-11-550 of the rear axle slip angle control (HSR). HSR disconnects the communication with the rest of the network.

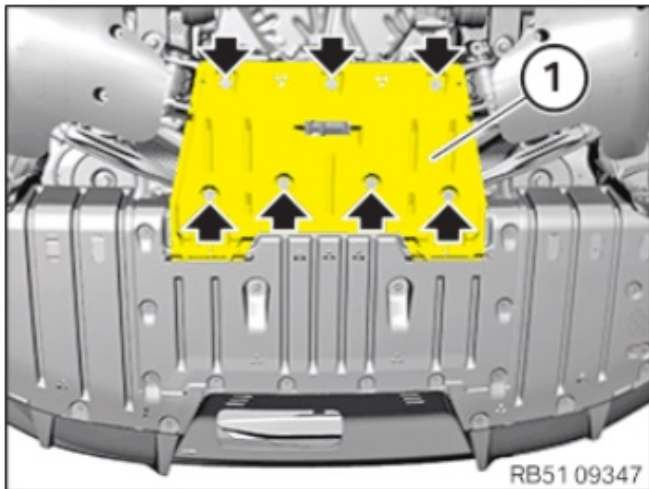
CORRECTION

Power reset of the HSR.

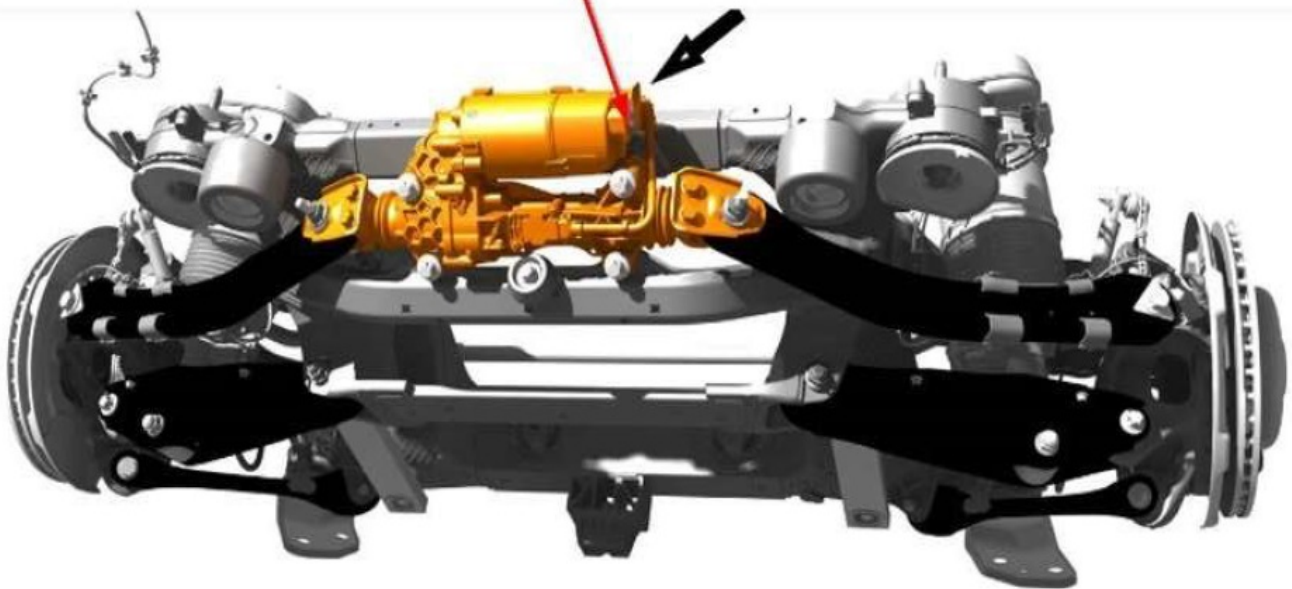
PROCEDURE

1. Perform a power reset of the HSR module

2. Remove rear underbody shield (1).



3. Disconnect and reconnect the power connector (2) for the HSR as shown below.



4. Reinstall the underbody shield.
5. Determine what is the vehicle's current I-level by either using AIR or the ISPA NEXT application.
6. If the I-level is older (lower) than I021-11-550, the vehicle must be programmed/encoded with the current ISTA version.
7. If the I-level is greater than or equal to I021-11-550, further diagnosis using ISTA must be performed.

CLAIM INFORMATION

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

Note: Only one (1) Main work labor operation code can be claimed per workshop visit.

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Defect Code:	3334081500	Actuator for rear axle king pin inclination control (HSR) Permanent malfunction
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Refer to AIR for the corresponding flat rate unit (FRU) allowances.

Labor Operation	Description	Labor Allowance
51 75 110	Removing and installing/replacing rear undershield (Main work)	Refer to AIR
Or:		
51 75 610	Removing and installing/replacing rear undershield (Plusposition)	Refer to AIR
And, as needed:		
33 99 000*	Verify the steering related issue (Work time)	WT
Or:		
00 58 500*	Diagnosis Worktime Flat Rate	2 FRU
And:		
33 99 000*	Power reset of the HSR (Work time)	1 FRU

If you are using a Main labor code for another repair, use the Plus code labor operation 51 75 610 instead of 51 75 110.

Note: Claim work time labor operation code 33 99 000* one time only for the total FRU allowance that applies.

And, if the:

Vehicle's I-level is older (lower) than I021-11-550
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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.

Select one of these open Technical Campaigns to perform and submit for 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.

Only when the above does not apply, the BMW software solution is then:

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks, or the BMW Certified Pre-Owned Program as described below.

Labor Operation	Description	Labor Allowance
00 00 006	Carrying out vehicle test (Main work)	Refer to AIR
Or:		
00 00 556	Carrying out vehicle test (Plus work)	Refer to AIR
And:		
61 21 528	Supporting voltage of the vehicle electrical system / recharging vehicle battery	Refer to AIR
And:		
61 00 730	Program/encode control unit(s), includes deleting the fault memory	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, or exclude (including 61 21 528) when the Vehicle Test is included in another repair.

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Work time labor operation codes 33 99 000 and 00 58 500 are not considered Main labor operations.

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 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.

FEEDBACK REGARDING THIS BULLETIN

Technical Feedback	To submit feedback for the technical topic 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

