This Service Information Bulletin (Revision 1) replaces SI B61 07 22 **dated April 2022.**

What's New (Specific text highlighted):
- MODEL, Removal of I20
- CLAIM INFORMATION, Defect Code

MODEL

F90 M5 Sedan	F91 M8 Convertible	F92 M8 Coupe	F93 M8 Gran Coupe
F95 X5 M Sports Activity Vehicle	F96 X6 M Sports Activity Vehicle	F97 X3 M Sports Activity Vehicle	F98 X4 M Sports Activity Vehicle
G01 X3 Sports Activity Vehicle	G02 X4 Sports Activity Vehicle	G05 X5 Sports Activity Vehicle	G06 X6 Sports Activity Vehicle
G07 X7 Sports Activity Vehicle	G12 7 Series Sedan	G14 8 Series Convertible	G15 8 Series Coupe
G16 8 Series Gan Coupe	G20 3 Series Sedan	G22 4 Series Coupe	G23 4 Series Convertible
G26 4 Series Gran Coupe	G29 Z4 Roadster	G30 5 Series Sedan	G32 640i xDrive Gran Turismo
G42 2 Series Coupe			

Affected production dates:
- G12 from March 2019
- F90, G30, G32 from July 2020
- F97, F98, G01, G02 from July 2021

All others from Start of Production.

SITUATION

Check Control message (CCM) displays "Vehicle key missing" after engine start.

CAUSE

Several causes are possible when the key fob with a good battery is in the cabin of the vehicle:
- The key fob is not recognized due to unfavorable location in vehicle interior
- Interference caused by radio antennas or high-voltage power lines
- Shielding of the key by metallic objects (for example: mobile phone or wallet)
- Charging of mobile devices in the vehicle
- Charging of the high-voltage battery (Battery Electric Vehicles or Plug-in Hybrid Electric Vehicles)

CORRECTION

Program the vehicle.

PROCEDURE

1. Determine the vehicle's current I-level by either using AIR or the ISPA NEXT application. If needed, use the latest ISTA to work through test modules.

2. Is the current vehicle integration level:

Model	Integration level
F90 F97 F98 G01 G02 G12 G30 G32	**Lower than S15A-22-03-520**
F91 F92 F93 F95 F96 G05 G06 G07 G14 G15 G16 G20 G22 G23 G26 G29 G42	**Lower than S18A-22-03-520**
I20	**Lower than I020-22-03-510**

YES: Proceed to Step 3
NO: Further diagnosis with ISTA is needed

3. Program the vehicle using ISTA 4.31.1X or higher (released late February 2022).

Model	Target integration level
F90 F97 F98 G01 G02 G12 G30 G32	**S15A-22-03-520** or higher
F91 F92 F93 F95 F96 G05 G06 G07 G14 G15 G16 G20 G22 G23 G26 G29 G42	**S18A-22-03-520** or higher
I20	**I020-22-03-510** or higher

Note that ISTA will automatically reprogram and code all programmable control modules that do not have the latest software.

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

For information on programming and coding with ISTA, refer to DealerSpeed / TIS / Technical Documentation / Diagnostics and Programming / Programming Documentation.

PARTS INFORMATION
Parts replacement will not provide a solution.

CLAIM INFORMATION
During this workshop visit, the affected vehicle may 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's software to the required I-level or higher.

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

Only if the above situation 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.

Defect Code:	6138270200	BDC Body Domain Controller, software error / internal equipment fault

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

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	Support voltage of the vehicle electrical system / recharge vehicle electrical system battery	Refer to AIR
And		
61 00 730	Programming/encoding control unit(s)	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.

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) 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 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