



SIB 51 27 24

2024-11-04

DRIVERS DOOR LOCK CORRUPTING ETHERNET BUS

☐ THIS REPAIR IS MOBILE FRIENDLY
MODEL

F90 (M5 Sedan)	F91 (M8 Convertible)	F92 (M8 Coupe)	F93 (M8 Gran Coupe)
G01 (X3 Sports Activity Vehicle)	G02 (X4 Sports Activity Coupe)	G05 (X5 Sports Activity Vehicle)	G06 (X6 Sports Activity Coupe)
G07 (X7 Sports Activity Vehicle)	G12 (7 Series Sedan)	G14 (8 Series Convertible)	G15 (8 Series Coupe)
G16 (8 Series Gran Coupe)	G20 (3 Series Sedan)	G26 (4 Series Gran Coupe)	G30 (5 Series Sedan)
G32 (640i xDrive Gran Turismo)	G80 (M3 Sedan)		

SITUATION

The Ethernet bus of the Body Domain Controller (BDC) is interrupted so that audio output, rear view camera, or the driver assistance systems fail. The symptoms begin to appear during auto locking at approx. 10 mph, or after the Central Locking button is activated.

Dependent upon vehicle equipment, the following permanent SAE faults may be stored in the vehicle:

- S 0219, No Communication possible with: Amplifier
- S 0261, No Communication possible with: Camera-based driver assistance
- S 0273, No Communication possible with: Headunit
- S 0313, No Communication possible with: All-round vision camera
- S 0386, No Communication possible with: Instrument Panel
- S 0394, No Communication possible with: Telematics control unit

CAUSE

A voltage surge generated by the driver's door locking motor is overloading the BDC-18 Ethernet controller.

CORRECTION

Replace the driver's door lock.

PROCEDURE

In the event of a customer complaint, proceed as follows:

1. Test drive the vehicle, check the Headunit settings to ensure automatic locking is activated.
2. Try to duplicate the customer complaint by cycling the door locks, either during automatic locking (>10 mph) or by pressing the Central locking button.
3. If a failure is not reproducible during the specified test conditions above, further fault analysis with ISTA is required.
4. When the complaint can be duplicated, disconnect the driver's door lock. Perform another test drive to isolate the failure.
5. If the failure is no longer present, replace the driver's door lock following repair instructions, **Removing and installing/replacing the door lock of the driver's door 51 21 092 | REP-REP-P-5121092**.

6. After lock replacement, perform an additional test drive to ensure the vehicle issue has been resolved. Cycle the door locks repeatedly as outlined in the specified test conditions above.

PARTS INFORMATION

To determine the part number(s) that applies to the specific vehicle being repaired, enter the VIN/chassis number into either ETK or AIR, this will consider the specific equipment and/or options that are fitted to the vehicle.

Part Number	Description	Quantity
Refer to ETK/AIR	System latch, left	1
Refer to ETK/AIR	Clip, Door panel	If applicable

Additionally, other materials and small parts that are not specified above, such as fluids, lubricants, one-time use screws, nuts, and seals, which must be replaced or installed (according to the ISTA repair instructions/ETK/AIR), are to be selected from the Electronic Parts Catalog, and/or other approved BMW Group resources according to the respective vehicle type. Invoiced these items separately under the Repair Code listed in this bulletin.

CLAIM INFORMATION

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.

Repair Code:	5121007900	Rotary latch lock/system lock, front incorrect connection /contact
---------------------	-------------------	---

Obtain the flat rate unit (FRU) allowances for the following that applies.

Labor Operation	Description	Labor Allowance
00 00 006	Carrying out vehicle test (Main work)	As applicable
Or:		
00 00 556	Carrying out vehicle test (Plusposition work)	As applicable
And:		
61 21 528	Supporting voltage of the vehicle electrical system / recharging vehicle battery	As applicable
And, as needed:		
61 00 006*	Carrying out vehicle diagnosis, ABL (Work time)	WT FRU
Or:		
00 58 500*	Diagnosis Worktime Flat Rate	2 FRU
And:		
51 21 592	Removing and installing/replacing the door lock of the driver's door	As applicable

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 them (including 61 21 528) when the Vehicle Test is included in another repair.

Work time labor operation codes 61 00 006 and 00 58 500 are not considered Main labor operations.

(*) 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.

BMW Group's AIR Application Resource for Flat Rate Labor Operation Codes

To obtain the corresponding flat rate unit (FRU) allowance information from the BMW Group AIR application
Copyright ©2024 BMW of North America, Inc.

“Search” icon. If the “Vehicle Selection” window displays two or more model possible vehicle choices, select the applicable Model, or enter the full VIN (17 characters) instead to proceed. Click on the “Flat Rate Units” button and enter a flat rate labor operation code number “without spaces” in the field to the right, click on the “Search” icon to display the corresponding listing of “Flat rate unit group details” that are available and their corresponding FRU allowances.

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

