



SIB 51 13 18

2020-02-13

LIN BUS FAULTS WITH EXTERIOR REARVIEW MIRROR GLASS DAMAGE

This Service Information Bulletin (Revision 2) replaces SI B51 13 18 **dated February 2020**.

What's New (Specific text highlighted):

- Situation
- Procedure

MODEL

E-Series	Model Description
F39	X2 Sports Activity Coupe
G20	3 Series Sedan
G29	Z4 Roadster

SITUATION

The exterior rearview mirror glass is discolored or cracked. The power windows and folding mirrors may not operate, and one or more of the following LIN bus faults are stored in the BDC (Body Domain Controller):

- D90C03 LIN bus master B: short circuit – BDC
- D90C04 LIN bus master B: No communication - BDC
- D90C05 LIN bus master B: Communication failed – BDC
- D90D07 Operating facility switch block (LIN): Missing LIN slave
- D90D0A exterior rearview mirror left (LIN bus): Absent LIN slave – BDC
- D90D0D exterior rearview mirror right (LIN bus): Absent LIN slave – BDC
- 804246 exterior rearview mirror left (LIN bus): Heating or electrochrome: faulty – BDC
- 804256 exterior rearview mirror right (LIN bus): Heating or electrochrome: faulty – BDC
- 804265 exterior mirror left or right: Excess temperature — BDC
- 804260 exterior mirror left or right: Overvoltage — BDC
- 804261 exterior mirror left or right: Undervoltage — BDC



CAUSE

Faulty exterior rearview mirror electronics have created a short on the LIN bus, damaging the mirror glass and causing functional errors in power window and exterior mirror operation.

CORRECTION

Replace the mirror electronics in the exterior mirror.

PROCEDURE

For conditions similar to those described:

1. Test the operation of the power windows, side rearview mirror adjustment, and side rearview mirror folding functions. Inspect the side rearview mirror glass on both sides for damage as shown in the photo above.

Is a fault or damage found in one or more of those areas?

Yes: Proceed to step 2.

No: Continue diagnostics using ISTA, this bulletin does not apply.

2. Perform a vehicle test to check for faults. If one or more of the following fault codes are stored, proceed to step 3.

- D90C03 LIN bus master B: short circuit – BDC
- D90C04 LIN bus master B: No communication - BDC
- D90C05 LIN bus master B: Communication failed – BDC
- D90D07 Operating facility switch block (LIN): Missing LIN slave
- D90D0A exterior rearview mirror left (LIN bus): Absent LIN slave – BDC
- D90D0D exterior rearview mirror right (LIN bus): Absent LIN slave – BDC
- 804246 exterior rearview mirror left (LIN bus): Heating or electrochrome: faulty – BDC
- 804256 exterior rearview mirror right (LIN bus): Heating or electrochrome: faulty – BDC
- 804265 exterior mirror left or right: Excess temperature — BDC

- 804260 exterior mirror left or right: Overvoltage — BDC
- 804261 exterior mirror left or right: Undervoltage — BDC

3. Replace the mirror electronics of the affected mirror following repair instructions **REP 67 13 526** “Replacing mirror electronics for electrically adjustable exterior mirror left or right”.

4. Replace the mirror glass, if damaged.

PARTS INFORMATION

Obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number	Description	Quantity
Refer to ETK/AIR	Mirror electronics, left	1 if necessary
And/or:		
Refer to ETK/AIR	Mirror electronics, right	1 if necessary
And, if necessary:		
Refer to ETK/AIR	Mirror glass (left)	1 if necessary
And/or:		
Refer to ETK/AIR	Mirror glass (right)	1 if necessary

WARRANTY INFORMATION

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

Defect Code:	6713027900	Mirror electronics, outside rearview mirror incorrect connection / contact fault
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	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR

And, for the:

G20 (3 Series Sedan)

Labor Operation	Description	Labor Allowance
67 13 525	Replacing mirror electronics for electrically adjustable rearview mirrors, left or right (Plus work) (including replacing the mirror as necessary)	Refer to AIR
Or:		
67 13 530	Replacing mirror electronics for both electrically adjustable rearview mirrors (Plus work) (including replacing the mirrors as necessary)	Refer to AIR

Or, for the:

F39 (X2 Sports Activity Coupe) and G29 (Z4 Roadster)

Labor Operation	Description	Labor Allowance
67 13 526	Replacing mirror electronics for electrically adjustable rearview mirrors, left or right (Plus work) (including replacing the mirror as necessary)	Refer to AIR
Or:		
67 13 531	Replacing mirror electronics for both electrically adjustable rearview mirrors (Plus work) (including replacing the mirrors as necessary)	Refer to AIR