



This Service Information bulletin supersedes SI B51 19 07 **dated August 2011**.

NEW designates changes to this revision

SUBJECT

Doors Will Not Unlock Using the Key Fob or Central Locking Button

MODEL

E90, E91 (3 Series) produced up to 11/2008

SITUATION

One or more of the doors may not unlock when using the remote key outside the vehicle, or the central locking button inside the car. It is still possible, however, to unlock the door by using the key in the driver's door lock cylinder or by pulling the door handle on the inside of the car.

Typically fault codes A6D4 and A6D5 are stored in the Junction Box Electronics (JBE).

CAUSE

This is due to a blown fuse in the JBE caused by either:

- An excessive amperage draw by one of the door lock actuators, which is commonly attributed to silicone contamination; or
- An intermittent, but acceptable, amperage spike slightly above 15A, due to normal variation in the locking system.

CORRECTION

Replace the fuse with one of a different rating.

Replace the necessary actuator as well, but only if it is drawing excessive amperage.

NOTE: Never spray any silicone products into the latch, as this will lead to premature failure.

PROCEDURE

1. Perform a vehicle test using ISTA.
2. Inspect fuse 57 (up to 9/07 production) or 73 (from 9/07 production) in the JBE.
3. Replace the blown 15A fuse with a 20A fuse.
4. Perform a function test by activating the door locks 10 times in succession via the central locking switch.

NOTE: The thermal protection will be activated after about 15 successive activations and does not indicate any damage to the system.

5. Carefully observe the operation of each lock actuator while it is being cycled. Lock actuators with some degree of damage will exhibit noticeable symptoms of this, such as slow operation, abnormal noises, etc.
 - If either one of the front door lock actuators is determined to be the source of the blown fuse, **both** front door latches (which contain the lock actuators) should be replaced per Repair Instruction REP 51 21 090. For this replacement, the door latch kit, which contains both the left and right side latches, must be used.
 - If either one of the rear door lock actuators is determined to be the source of the blown fuse, only

that **single** faulty latch should be replaced per Repair Instruction REP 51 22 090.

- If one of the front lock actuators and one of the rear lock actuators appears to be faulty, **both** front latches and the **single** faulty rear latch should be replaced per Repair Instruction REP 51 21 090 and REP 51 22 090.
- If no faulty lock actuators can be identified, wait 2 minutes and then repeat step 4.

NOTE: If any door latches are to be replaced, the attached procedure should be utilized in conjunction with the REP noted above. This attachment will reduce the amount of time necessary to perform the replacement.

6. After the second functional test, if no faulty lock actuators can be identified, none of the latches should be replaced.

PARTS INFORMATION

NEW Use and claim the replacement BMW part numbers that are provided below.

Part Number	Description	Quantity
51 21 7 272 999	Door latch kit (contains both left and right latches)	As required
51 22 7 060 295	Door latch – left rear	As required
51 22 7 060 296	Door latch – right rear	As required
61 13 6 942 071	20 Amp mini fuse	1

NEW WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty for latch failures not attributed to silicone contamination.

Defect Code:	51 21 00 79 00	Use for Situation A alone or together with B, E or F below when necessary
or		
Defect Code:	51 22 02 79 00	Use for Situation A together with C or D below when necessary

A. Perform ISTA Diagnosis, Check/Replace Fuse and System Function Check

Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults)
and if necessary, also		
61 21 528	Refer to KSD2	Charging battery

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

and

Labor Operation:	Labor Allowance:	Description:

61 00 009	3 FRUs	Troubleshooting electrical/electronic system
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Even though work time labor operation code 61 00 009 ends in “009,” it is not considered a Main labor operation.

Required additional work after performing item “A”

B. Replacing Both Front Door Latches

Labor Operation:	Labor Allowance:	Description:
51 21 610	Refer to KSD2	Removing and installing or replacing locks for both front doors

or

C. Replacing One Rear Door Latch

51 22 590	Refer to KSD2	Removing and installing or replacing lock for left or right rear door
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or

D. Replacing Both Rear Door Latches

or

51 22 610	Refer to KSD2	Removing and installing or replacing locks for both rear doors
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or

E. Replacing Both Front Door Latches and One Rear Door Latch

Labor Operation:	Labor Allowance:	Description:
51 21 610	Refer to KSD2	Removing and installing or replacing locks for both front doors
and		
51 22 590	Refer to KSD2	Removing and installing or replacing lock for left or right rear door

or

F. Replacing Both Front Door Latches and Both Rear Door Latches

Labor Operation:	Labor Allowance:	Description:
51 21 610	Refer to KSD2	Removing and installing or replacing locks for both front doors

and		
51 22 610	Refer to KSD2	Removing and installing or replacing locks for both rear doors

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the “Search” button, and then enter the applicable flat rate labor operation in the FR code field.

ATTACHMENTS

View PDF attachment [B511907 Procedure](#).

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