



SIB 51 12 19
KIDNEY GRILL ACTIVE AIR FLAP FAULTS

2024-07-29

This Service Information Bulletin (Revision 6) replaces SI B51 12 19 **dated September 2020**.

- What's New** (Specific text highlighted):
- Updated attachment 1 serial number location

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THIS REPAIR IS MOBILE FRIENDLY

MODEL

E-Series	Model Description
G05	X5 Sports Activity Vehicle
G06	X6 Sports Activity Coupe
G07	X7 Sports Activity Vehicle
G14	8 Series Convertible
G15	8 Series Coupe
G20	3 Series Sedan
G29	Z4 Roadster

SITUATION

A check control message or MIL (Malfunction Indicator Lamp) may be illuminated, with one or more of the following faults stored:

- 138207-** Active cooling damper control (AKKS), top: blockage at warm ambient temperature
- 21B043-** Active cooling damper control (AKKS), top: blockage at all ambient temperatures
- 138222-** Active cooling damper control (AKKS), above: positional deviation error detected at warm ambient temperature
- 138209-** Active cooling damper control (AKKS), top: Control deviation at all ambient temperatures
- 13822B-** Active cooling damper control (AKKS), top: Control deviation at all ambient temperatures
- 21B042-** Active cooling damper control (AKKS), below: blockage at all ambient temperatures
- 138206-** Active cooling damper control (AKKS), bottom, blockage at warm ambient temperature
- 138225-**Active air-flap control, bottom: top limit position not detected
- 138224-**Active air-flap control, bottom: bottom limit position not detected

CAUSE

- Multiple potential issues may be the cause, including:
- Faulty active air flap(s) (Upper and/or lower)
 - Software error in the DME
 - Debris or blockages from outside influence (non-warranty)
 - Information error memory that does not require a repair
 - For G20 only- Detached lower active air flaps

CORRECTION

Depending on the results of the inspection procedure, a software update or flap replacement may be required.

In the case of some information error faults, the fault code can be deleted as it will not trigger a MIL or check control message.

PROCEDURE

For each fault code, the corresponding active air flap must be thoroughly inspected for stones or other debris that may cause a mechanical blockage. If no debris or blockage from outside influence is found:

Use the table below to begin diagnostics based on the specific faults stored:

Upper active air flap fault code(s):	Correction:
0x138209 0x13822B 0x138222	<p>Is the fault frequency above 1?</p> <p>YES: Perform the system test plan (ABL-DIT-AT1214_BX8_KJ) for the active air flaps. If the flap fails the functional test plan, follow the test plan recommendations to replace the faulty flap AND program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.</p> <p>Note: If the test plan does not indicate a faulty flap, the fault memory can be deleted, no check control message or MIL will be illuminated.</p> <p>NO: No action required; fault can be deleted. No check control message or MIL will be illuminated.</p>
0x138207 0x21B043	<p><u>FOR G05/G07 ONLY:</u></p> <p>Is the serial number of the upper flap included in the attached list?</p> <ul style="list-style-type: none">Refer to Attachment 1 “Serial number location” for the location of the serial number of the flap.Refer to Attachment 2 “Serial numbers” to search for the serial numbers of the flap. <p>YES: Replace the upper active air flap AND program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.</p> <p>NO: Perform the system test plan (ABL-DIT-AT1214_BX8_KJ) for the active air flaps.</p> <ul style="list-style-type: none">Test fails- Replace the failed air flap, AND program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.Test passes-Program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.

	<p><u>FOR G20 ONLY:</u></p> <p>Perform the system test plan (ABL-DIT-AT1214_BX8_KJ) for the active air flaps.</p> <ul style="list-style-type: none"> • Test fails- Replace the failed air flap AND program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher. • Test passes-Program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.
Lower active air flap fault code(s):	Correction:
0x21B042	<p>Check the environmental details of the fault using ISTA.</p> <p>Did the fault set at an ambient temperature below 45°F?</p> <p>Yes: No action required, fault can be deleted. No check control message or MIL will be illuminated. Flap was likely temporarily blocked by icing.</p> <p>No: Program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.</p>
0x138206	<p>Is the fault frequency above 1?</p> <p>No: Perform the system test plan (ABL-DIT-AT1214_BX8_KJ) for the active air flaps.</p> <ul style="list-style-type: none"> • Test fails- Replace the failed air flap(s) AND program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher. • Test passes-Program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher. <p>Yes: Using ISTA fault code information for this fault code, check the dates that the fault occurred.</p> <p>If the fault code occurred multiple times on the same day:</p> <p>Program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.</p> <p>If the fault code occurred multiple times on different days:</p> <p>Replace the lower active air flap AND program the vehicle using ISTA 4.16.2x (I-Level S18A-19-03-530) or higher.</p>
For G20 ONLY (If vehicle has additional faults in conjunction with the faults below, begin with the steps below):	

0x138225 0x138224	<p>Refer to Attachment 3 for inspection instructions for the lower active air flap.</p> <p>The underbody shield will be removed following repair instructions 51 47 490 “Removing and installing/replacing underbody protection (Front)”, and the flap connection should be inspected.</p> <p>Was the flap linkage disconnected?</p> <p>Yes: Correctly reinstall the flaps by clipping the flaps into the linkage as shown in the attachment.</p> <p>No: Perform the system test plan (ABL-DIT-AT1214_BX8_KJ) for the active air flaps. Follow test plan recommendations.</p>
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If vehicle programming is specified by the diagnosis table-

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

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

PARTS INFORMATION

Required parts will depend on the results of diagnosis from the above procedure. Not all vehicles will require active air flap replacement.

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

G05, G06, G07, G14, G15 and G20

Part Number	Description	Quantity
Refer to ETK/AIR	Air flaps, upper	1
Refer to ETK/AIR	Air flaps, lower	1

G29 (Z4 Roadster)

Part Number	Description	Quantity
Refer to ETK/AIR	Air duct with flap control (Assembly)	1

Additionally, other small parts that are not specified above, such as one-time screws, nuts and seals, which must be replaced according to the ISTA repair instructions/ETK, must be selected from the Electronic Parts Catalogue according to the respective vehicle type and invoiced under the corresponding repair defect code.

WARRANTY INFORMATION

Active cooling damper control-related fault codes/repairs that are caused by debris/blockage from outside influences is not a defect in materials or workmanship and is not claimable.

Active cooling damper control-related fault codes/repairs that are caused by a defect in materials or workmanship are covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars.
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and Light Trucks.

Diagnosis

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, as necessary:		
61 00 006	Performing vehicle diagnosis – test module	Work time (WT)

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.

Work time labor operation codes 61 00 006 and 51 99 000 (below) are not considered Main labor operations.

For the above and for any addition work that is required, as applicable to your center, please refer to **SI B01 01 20 or B01 07 20** for claiming your diagnosis work time, job/repair work time (WT), WT and repair-related explanation procedures.

And, with the diagnosis above together with the following as applicable:

G05, G06, G07, G14, G15 and G20

Defect Code:	5174031200	Air flap control active above (actuator) permanently failed (Including combined top and bottom active air flap repairs)
:		
Labor Operation	Description	Labor Allowance
51 64 700	Replacing top flap control (after vehicle diagnosis)	Refer to AIR

Or:

Defect Code:	5171431200	Bottom active air flap control (actuator) permanent failure
:		
Labor Operation	Description	Labor Allowance
51 64 705	Replacing bottom flap control (after vehicle diagnosis)	Refer to AIR

Or:

Defect Code:	5174031200	Air flap control active above (actuator) permanently failed (Including combined top and bottom active air flap repairs)
	Or:	
	5171431200	Bottom active air flap control (actuator) permanent failure

Labor Operation	Description	Labor Allowance
51 64 715	Replacing top and bottom air flap control (after vehicle diagnosis)	Refer to AIR

Or, for the:

G29 (Z4 Roadster)

Labor Operation	Description	Labor Allowance
51 64 710	Replacing air flap control (Assembly) (after vehicle diagnosis)	Refer to AIR

And:

In conjunction with performing a covered repair per the Procedure, when this is required:

Labor Operation	Description	Labor Allowance
61 00 730	Programming/encoding control unit(s)	Refer to AIR

During the workshop visit for this repair procedure, the above vehicles may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

If you should have this situation, update the vehicle to the required I-level or higher by performing and submitting for it through one of these open Technical Campaigns instead.

Please be sure to also perform any additional work the campaign repairs require and/or close the remaining open programming and encoding the Campaign repairs as outlined in the corresponding Service Information Bulletin.

Only if the situation above does not apply, the additional flat rate labor operation code above to perform the programming and encoding procedure is then claimable within the work procedures and coverage guidelines described in this bulletin.

Or, for the:

G20 ONLY

Defect Code:	5171341300	Bottom air flap/cooling flap (mechanics) broken/detached
:		
Labor Operation	Description	Labor Allowance
51 47 500	Removing and installing/replacing underbody protection (Front) for inspection/repair (Plus work)	Refer to AIR
And:		
51 99 000	Work time to reinstall flaps, if disconnected	2 FRU

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

Programming and Encoding - Vehicle Control Units (RO and Claim Comments Required)

The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software I-level. If one or more control module failures occur during this programming

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Please claim this consequential control module-related repair work (including performing the IRAP Control Unit Recovery procedure first as required, refer to the SIB in AIR) under the defect code listed in this bulletin with the applicable AIR labor operations.

Please explain this additional work (The why and what) on the repair order and in the claim comments section

For control module failures that occurred prior to performing this programming procedure:

When covered under an applicable limited warranty, claim the applicable test plan and the corresponding control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis).

QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Submit an IDS ticket to the Warranty Department
Parts inquiries	Submit an IDS ticket to the Parts Department

Supporting Materials

- [picture_as_pdf B511219 Attachment 3.pdf](#)
- [picture_as_pdf B511219 Attachment 2 Serial numbers.pdf](#)
- [picture_as_pdf B511219 Attachment 1 Serial number location .pdf](#)

