



This Service Information bulletin supersedes SI B64 05 13 **dated May 2013**.

NEW designates changes to this revision

SUBJECT

HV Battery Expansion Valve Sticking

MODEL

F02H (ActiveHybrid7)

F10H (ActiveHybrid5)

F30H (ActiveHybrid3)

SITUATION

The high-voltage battery is cooled by refrigerant as part of the vehicle's AC system. It is regulated using an expansion valve at the base of the battery itself. This expansion valve can become stuck in the open position, either intermittently or permanently.

Fault code **21F107 – Cooling valve: valve couldn't be closed** will be stored in the SME.

CAUSE

1. Excess material from the manufacturing process can become lodged in the valve, causing it to stick open.
2. The diagnostic software in the SME control unit is not robust enough and can lead to a fault being set when a particular threshold is reached, despite the fact that the valve is not actually sticking.

PROCEDURE

Regardless of whether the fault is permanent or intermittent, the expansion valve must be replaced and, if necessary, the vehicle software updated.

If the vehicle I-level is below 13-07-501, program the vehicle, including a complete vehicle coding, using ISTA/P 2.50.0 or a more recent version.

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

For information on programming and coding with ISTA/P, refer to Centernet / Aftersales Portal / Service / Workshop Technology / Vehicle Programming.

NEW PARTS INFORMATION

Part Number	Description	Quantity
64 50 9 263 429	Expansion Valve (F30 H)	1 as needed
64 11 9 249 225	Expansion Valve (F02 H, F 10H)	1 as needed
83 19 2 221 349	R134a (Gas 1-oz units)	As needed

NEW WARRANTY 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.

Defect Code:	64 50 04 76 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery”)
And:		
64 51 533	Refer to KSD2	Removing and installing expansion valve for high-voltage battery unit (includes disconnecting high-voltage system and discharging, evacuating and filling air conditioner)

If you are using a main labor code for another repair, use the plus code labor operation 00 00 556 instead.

And, if the vehicle is NOT already at the specified “Target” integration level or higher, also:

Labor Operation:	Labor Allowance:	Description:
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

Vehicle Programming and Encoding

If a control module or component was working properly and/or had no related faults stored prior to vehicle programming and it fails to program correctly or requires initialization, this additional work must be claimed with separate labor operations (refer to KSD2) under the defect code listed above.

Repairs to control modules and components with pre-existing conditions are not eligible to be claimed under the defect code listed in this bulletin.

Sublet - Materials

Sublet Code 4		
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	See sublet reimbursement calculation below	Reimbursement for used quantities of required operating fluids (applicable BMW bulk part numbers, excluding R134a). Please do not use these part numbers for claim submission.
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Sublet calculation: Reimbursement for used quantities of required operating fluids (applicable BMW part numbers, excluding R134a) at dealer net plus handling.

Enter this material cost in sublet and itemize the amount in the claim comment section.

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