



DRIVE WARNING CCM MESSAGES

MODEL

F60 PHEV (Cooper S E Countryman ALL4)	
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SITUATION

Check Control Messages (CCM) displayed:

- "Engine fault! Power loss" (CCM-ID: 29)
- "Powertrain malfunction!" (CCM ID: 633)

Fault codes stored in Battery Management Electronics (SME) Control unit:

- 21F116- High-voltage battery unit, negative terminal: Switching contactor, contact stuck open
- 21F1F8- High-voltage battery, preloading: blocked due to exceeding of maximum number of failed attempts

CAUSE

Safety box malfunction. The SME prevents activation of the high-voltage system due to a mismatch between the hardware version of the SME and the safety box.

CORRECTION

Replace safety box, and, if necessary, SME depending upon production date of vehicle and / or safety box.

PROCEDURE

For conditions that are similar to the situation described:

1. With the latest version of ISTA, verify that the fault codes specified are entered into the fault memory.
2. Check the production date of the vehicle.

Is the production date of the vehicle before May 26, 2017?

YES- go to next step.

NO – go to step 5.

3. Check the production date of the SME (the production date can be found in ISTA by choosing the SME at the control unit tree and then choose "Call up control unit functions")

Is the production date of the SME before March 15, 2017?

YES- go to next step

NO – go to step 5.

4. Replace SME as per the repair instructions. Then go to next step.
5. Replace safety box as per the repair instructions.

Repair is complete.

6.

PARTS INFORMATION

Part number	Description	Quantity
61 27 7 536 512	Electronic memory management	1
61 27 8 686 893	Safety box	1
61 27 8 606 057	ISA screw	16
61 27 8 606 058	ISA screw	4
61 27 7 645 627	Seal for HV battery	1
61 27 7 643 663	Hexagon bolt with inside Torx	40

Bulk Materials

Part number	Description	Quantity
83 19 2 221 349	R134a (Gas 1 oz units)	As needed
Or:		
83 19 2 287 039	R1234YF (Gas 1 oz units)	As needed

WARRANTY INFORMATION

Covered under the terms of the MINI New Passenger Car Limited Warranty or the MINI NEXT/MINI Certified Pre-Owned Limited Warranty.

Defect Code	6127060200	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as Charging battery)
And:		
61 25 910	Refer to KSD2	Recharging high-voltage battery unit (to high voltage

		charging socket)
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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.

And:

Replacing the Safety Box only

Labor Operation:	Labor Allowance:	Description:
61 25 510	Refer to KSD2	Removing and installing the high voltage battery unit (Includes discharging, evacuating and filling-back air conditioner)
And:		
61 27 551	Refer to KSD2	Replace the safety box (High-voltage battery unit remove) (Includes final test of the high-voltage battery unit)

And when required, as outlined in the procedure:

Replacing the SME (In conjunction with replacing the Safety Box)

Note for F60: Removing and installing the lid for the high-voltage unit is required to access the safety box, this is included in labor operation 61 27 551.

A programming and encoding procedure is required when the SME is replaced.

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

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

And, as needed:

Sublet – Bulk Materials (excluding R134a or R1234YF)

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the repair-related bulk materials (Please do not use the part numbers for claim submission)
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Sublet reimbursement calculation for claiming the “used quantities” of repair-related bulk materials (MINI part numbers) is at dealer net plus your center’s handling.

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

Overlapping Labor Procedure – Other Repairs

If invoicing the KSD2 flat rate labor operation codes for other repair work results in overlapping labor, for those flat rate labor operations that are affected, you can now:

- Replace the stated KSD2 “FRU allowance” with a “reduced FRU value” to eliminate the overlapping labor.

For help in identifying the overlapping labor, please refer to the AIR FRU Plausibility Check (Overlapping Labor Tool) that is located in the AIR Client.

Eligible other repair work being claimed under a different defect code will require separate punch times.

On the repair order and in the claim comment section, please identify and itemize those labor operations being claimed with a “reduced FRU value.”

Vehicle Programming and Encoding

- A. 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 procedure:

- Please claim this “consequential” control module-related repair work under the defect code listed in this bulletin with the applicable KSD2/AIR labor operations.

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

- B. For control module failures that occurred “prior” to performing this programming procedure:

- When “covered” under an applicable limited warranty, claim this control module-related repair work using the applicable defect code and labor operations (including diagnosis) in KSD2/AIR.

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