



MIL LAMP ILLUMINATED: EME FAULT CODES 222705, 222710, 222712, 222719, 22272C OR 22272D

MODEL

F15 (X5 xDrive40e)	I01 (i3 & i3 REx)	I12 (i8)
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SITUATION

Malfunction Indicator Lamp (MIL) is illuminated.

Any of the following Fault Codes (FC) may be stored in the Electrical Machine Electronics (EME):

222705 - Internal error, level 3, internal ADC error mc0

222710 - Internal error, level 3, stack fault mc2

222712 - Internal error, level 3, internal ADC error mc2

222719 - FUSI, wheel blocking recognition: Active head restraint active request

22272C - ZERO needle detected

22272D - ZERO needle detected

CAUSE

Internal fault in the EME

CORRECTION

Replace the EME.

PROCEDURE

For conditions that are similar to the situation described:

Using ISTA, check for codes stored in the EME.

Are any of the codes, listed above, stored?

- YES – Until ISTA Next 4.04.10 is released (2/2017), ignore any of the diagnosis recommendations and replace the EME using appropriate repair instructions.

PARTS INFORMATION

Vehicle	Description	Part Number	Quantity
F15 PHEV (X5 xDrive40e iPerformance)	EME	Refer to EPC	1
I01 (60Ah) (BEV) (i3)	EME	Refer to EPC	1
I01 (60Ah) (REx) (i3 Rex)	EME	Refer to EPC	1
I01 (94Ah) (BEV) (i3)	EME	Refer to EPC	1
I01 (94Ah) (REx) (i3 Rex)	EME	Refer to EPC	1
I12 (i8)	EME	Refer to EPC	1

Bulk Materials – Part Numbers

Part Number	Description	Quantity
83 19 2 221 349	R134a Gas (1 oz unit)	As needed
Or:		
83 19 2 287 039	Refrigerant R1234yf (1 oz unit)	As needed

Bulk Materials – Sublet

Part Number	Description	Quantity
	Antifreeze/Coolant	As needed

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.

BMW X5 xDrive40e, i3 with Range Extender (Rex) and the i8 only: This EME is also covered by the terms of the State-specific Emissions Warranty (vehicle model year and state of registration-dependent) that applies.

Defect Code:	1236001500
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I01 (i3) and I12 (i8)

Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 25 910	Refer to KSD2	Recharging high-voltage battery unit (to high voltage charging unit)
And:		
12 36 610	Refer to KSD2	Replacing Electric Machine Electronics (EME) (i8: includes discharging, evacuating and filling air conditioner)
And:		
61 00 730	Refer to KSD2	Programming / encoding control unit(s)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply(indicated in KSD2 as "Charging battery to EME")

Or, for the:

I01 (i3) only

Labor Operation:	Labor Allowance:	Description:
61 21 529	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as "i3) (luggage compartment service cap removed)

Also, for the:

I12 (i8) only - Checking Wheel Alignment

Labor Operation:	Labor Allowance:	Description:
32 00 595	Refer to KSD2	Wheel alignment check KDS with ride-height measurement, without load

And in conjunction, if and as necessary:

Adjusting

Labor Operation:	Labor Allowance:	Description:
32 00 601	Refer to KSD2	Adjusting toe-in on front axle
Or:		
32 00 620	Refer to KSD2	Adjusting rear axle
Or:		
32 00 630	Refer to KSD2	Adjusting rear axle and front axle

Or, for the:

F15 (X5 xDrive40e)

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:		
12 36 610	Refer to KSD2	Replacing Electric Machine Electronics (EME)
And:		
		Programming / encoding control

61 00 730	Refer to KSD2	unit(s)
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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.

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

And, for:

All Vehicles (as Applicable) Sublet – Bulk Materials

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the repair-related bulk materials (excluding R134a/R1234yf), please, do not use these part numbers for claim submission
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Sublet reimbursement calculations:

BMW Antifreeze/Coolant for the amount needed to replace what was drained with a “50/50 coolant/water solution” at dealer net plus your center’s handling.

And as necessary:

The “used quantities” of other repair-related bulk materials (excluding R134a/R1234yf):

- BMW part numbers are at dealer net plus your center’s handling.

Enter these material costs in sublet and itemize the amounts on the repair order and in the claim comment section

Vehicle Programming and Coding

When ISTA/P automatically reprograms and codes all the vehicle’s control modules that “currently do not have” the latest software and 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.

Other Control Module Repairs

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 in KSD2/AIR.

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.

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.”

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