



## SUBJECT

**EME Fault Code: 222011**

## MODEL

I01 (i3 and i3 REx)

I12 (i8)

## SITUATION

- It is not possible to engage any drive position and/or the display on the gear selector switch (GWS) returns back to "P" and "P" begins to flash.
- Check Control Messages (CCM): 170 "Drivetrain fault!" and/or 633 "Drivetrain fault!" is displayed in the instrument cluster.
- Fault code 222011 "Electrical machine, rotor position sensor, signal: Rotor position sensor adjustment not yet performed" is stored in the Electrical Machine Electronics (EME).

## CAUSE

EME software.

## PROCEDURE

**Only properly trained personnel, who have passed all applicable technical training courses, should perform any maintenance or repairs on any Hybrid or Electric Vehicle. Work performed by unqualified persons may result in severe injury or damage to the vehicle. Additional information may be found in REP 61 00... Observe safety instructions when handling electric vehicles.**

1. Perform the adjustment of the rotor position sensor with Service Function > 01 Drive > Electrical machine electronics > Motor position sensor adjustment > EME: Rotor position sensor adjustment.
2. Program the complete vehicle with ISTA/P 3.57.1 (Target I-Level 15-11-502) or higher.

## 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.

<b>Defect Code:</b>	<b>12 36 00 02 00</b>	
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle

		diagnosis system – checking faults)
And:		
61 25 910	Refer to KSD2	Recharging high-voltage battery unit (to high voltage charging unit)
And:		
61 00 006	2 FRU	Performing vehicle diagnosis – test module (plan) EME: Rotor position sensor adjustment (WT)
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:

### 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)

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) allowance

Work time labor operation code 61 00 006 is not considered a Main labor operation. Also, since the “work time” FRU allowance to be claimed is specified, a separate punch time is not required.

### **Vehicle Programming and Encoding**

If a control module was working properly and it fails to program correctly or requires initialization, please claim this additional work with the applicable KSD2 labor operations under the defect code listed above.

The diagnosis and repair of vehicles “arriving” with failed control modules or stored faults which will cause them to fail during programming cannot be claimed under the defect code listed in this bulletin.

### **Other Repairs**

If other eligible and covered work is performed “prior” to programming and coding the vehicle, claim this work with the applicable defect code and labor operations listed in KSD2.

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