

**SUBJECT****Updated Power Electronics Box Bracket****MODEL**

E72 (X6 ActiveHybrid)

**SITUATION**

There is a “Hybrid Malfunction” or “Drivetrain Malfunction” check control message. This may be an intermittent condition. The Auxiliary Power Module (APM) fault below is present, in addition to several under voltage and communication faults in various control units. Various drivability faults may also be observed.

01D89A - APM: No message from hybrid master control module (HCP)

**CAUSE**

Poor ground connection at the APM

**PROCEDURE**

Measure the voltage at the jump assist points in the engine compartment while the engine is idling. If the voltage is 14.8 volts or below, perform the following procedure:

Replace the PEB (Power Electronics Box) bracket per REP 12 36 010 “Removing and installing/replacing power electronics box”. The new bracket includes an additional ground stud and associated cable. The additional ground cable serves to ground the APM to the PEB bracket for better grounding capabilities.

**PARTS INFORMATION**

Part Number	Description	Quantity
51 71 7 195 765	Mount, bracket for control module PEB	1
12 42 7 620 472	Ground cable for APM	1
61 13 1 367 599	Cable Tie	5
07 11 9 905 528	Hex bolt with washer	1
07 14 3 413 174	Flange nut	1

**WARRANTY INFORMATION**

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty.

<b>Defect Code:</b>	<b>12 36 03 37 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 21 528	Refer to KSD2	Connect an approved battery charger/power supply(indicated in KSD2 as “Charging battery”)

and		
61 00 009	1 FRU	Work time to measure the voltage at the jump assist points
and		
12 36 510	Refer to KSD2	Removing and installing bracket for power electronics box

Labor operation code 00 00 006 is a Main labor operation. 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. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the “Search” button, and then enter the applicable flat rate labor operation in the FR code field.

Even though work time labor operation code 61 00 009 ends in “009”, it 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.

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