



## SERVICE ACTION: CHECK CHARGING OF THE HIGH VOLTAGE BATTERY

Please perform the procedure outlined in this Service Information on all affected vehicles prior to customer delivery, or the next time the vehicle is in the shop.

This Service Information bulletin replaces SI B61 28 16 **dated January 2017**.

### MODEL

F15 PHEV (X5)

### AFFECTED VEHICLES

This Service Action affects F15 PHEV (X5) vehicles (total of 1,380) produced from September 22nd, 2015 to December 23rd, 2016.

Affected vehicles which require this Service Action Campaign to be completed will show it as "Open" when checked either in AIR, the "Service Menu" of DCSnet (Dealer Communication System) or with the Key Reader.

### SITUATION

High-voltage charging system may not work correctly.

### Alternative Mobility Solutions (AMS) Reimbursement

This BMW Service Action repair qualifies for Alternative Mobility Solution (AMS) expense reimbursement. Please refer to SI B01 29 16 for claim submission details.

### CAUSE

Intermittent hardware failure of the charging module (KLE).

### CORRECTION

Check the HV KLE Charging Module according to the procedure below.

### PROCEDURE

1. Check if the VIN number of the affected vehicle is listed in the table of 114 VINs below.

0S75784	0S78852	0S79049	0S79142	0S79236	0S79347
0S75913	0S78860	0S79052	0S79144	0S79239	0S79352
0S77376	0S78868	0S79054	0S79145	0S79245	0S79376

0S77605	0S78937	0S79055	0S79148	0S79248	0S79405
0S77610	0S78984	0S79056	0S79154	0S79268	0S79411
0S77716	0S79002	0S79064	0S79155	0S79272	0S79439
0S77735	0S79010	0S79073	0S79157	0S79277	0S79445
0S77825	0S79011	0S79075	0S79160	0S79279	0S79452
0S77845	0S79013	0S79077	0S79164	0S79282	0S79465
0S77930	0S79015	0S79078	0S79167	0S79286	0S79473
0S77961	0S79021	0S79079	0S79174	0S79293	0S79479
0S78126	0S79027	0S79095	0S79184	0S79300	0S79480
0S78352	0S79029	0S79101	0S79196	0S79303	0S79498
0S78495	0S79031	0S79103	0S79208	0S79315	0S79508
0S78518	0S79032	0S79110	0S79213	0S79319	0S79510
0S78798	0S79033	0S79116	0S79218	0S79324	0S79518
0S78810	0S79034	0S79118	0S79224	0S79327	0S79559
0S78840	0S79042	0S79125	0S79231	0S79328	0S79566

a. NO – Continue to step 2.

b. YES - The KLE charging electronics module needs to be replaced. Follow the ISTA RA61 44 502 repair instruction (Removing and installing/replacing the KLE).

- After KLE replacement, vehicle needs to be programmed/coded using the latest version of ISTA Next.

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

**Always connect a BMW approved battery charger/power supply ([SI B04 23 10](#)).**

For information on programming and coding with ISTA/P, refer to: CenterNet / TIS / Technical Documentation / Diagnostics and Programming / Programming Documentation



Note: For warranty information use the “Warranty Information (Scenario 1)”

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2. Connect Level 2 (220V) charging cable to the vehicle.

Wait 15 seconds until the “Charging Active” blue light is illuminated.



3. **Repeat this step 20 times. Was “Charging Active” indicated in every (all 20) charging cycle attempt?**

**YES** — there are no further actions needed. The KLE charging module is working correctly.

**NO** — Continue to next step.

4. If the charging port indicator light flashes red (“Charging error”), connect vehicle to ISTA diagnostics and read vehicle’s fault memory.

**Is KLE fault code 21E64A (Charging electronics, internal fault step down converter voltage sensor measured value outside set-point) stored?**

**YES** — Go to next step.

5. The KLE charging electronics module needs to be replaced. Follow the ISTA RA61 44 502 repair instruction (Removing and installing/replacing the KLE)

6. After KLE replacement, vehicle needs to be programmed/coded using the latest version of ISTA Next.

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

**Always connect a BMW approved battery charger/power supply ([SI B04 23 10](#)).**

For information on programming and coding with ISTA/P, refer to: CenterNet / TIS / Technical Documentation / Diagnostics and Programming / Programming

Documentation
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## PARTS INFORMATION

Please refer to the Parts Matrix for parts ordering procedure.

Part Number	Description	Quantity
61 44 8 688 887	Charging module KLE	1

## WARRANTY INFORMATION

Scenario I (VIN is included in the VIN table above and this campaign shows open)

<b>Defect Code:</b>	<b>0061510400</b>
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Completion “before” vehicle delivery to the customer or the vehicle is already in the workshop

Labor Operation:	Labor Allowance:	Description:
00 64 874	32 FRU	Replacing the convenience charging electronics (includes programming and coding, connecting an approved battery charger/power supply and performing a vehicle test) (Plus work)

Or:

Completion after vehicle delivery to the customer

Labor Operation:	Labor Allowance:	Description:
00 64 307	34 FRU	Replacing the convenience charging electronics (includes programming and coding, connecting an approved battery charger/power supply and performing a vehicle test) (Main work)

Scenario II (This campaign shows open and the KLE test procedure was performed)

Reimbursement for this Recall will be via normal claim entry utilizing the following information:

<b>Defect Code:</b>	<b>0061500400</b>
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**Completion “before” vehicle delivery to the customer or the vehicle is already in the workshop**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 64 875	3 FRU	Testing HV charging with charging cable (no further action is need) (Plus work)
Or:		
00 64 876	35 FRU	Testing HV charging with charging cable and replacing the KLE (includes programming and coding, connecting an approved battery charger/power supply and performing a vehicle test) (Plus work)

Or:

**Completion after vehicle delivery to the customer**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 64 308	5 FRU	Testing HV charging with charging cable (no further action is needed) (Main work)
Or:		
00 64 309	37 FRU	Testing HV charging with charging cable and replacing the KLE (includes programming and coding, connecting an approved battery charger/power supply and performing a vehicle test) (Main work)

**Vehicle Programming and Coding (with 00 64 874, 00 64 876, 00 64 307 and 00 64 309)**

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 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.

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