



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.

MODEL

F15 PHEV (X5)

AFFECTED VEHICLES

This Service Action involves F15 PHEV (X5) vehicles produced from September 23rd, 2015 to September 30th, 2016.

Approximately 82 vehicles are affected by this Service Action. Vehicles which require this action to be completed will show as "Open" when checked either in AIR or ISPI Next. Once the Warranty Vehicle Inquiry system is updated, it will display the same information. The affected vehicles will be identified with the comment: **Technical Campaign B61 28 16 High-Voltage Battery.**

SITUATION

High-voltage charging system may not work correctly.

CAUSE

Intermittent hardware failure of the charging module (KLE).

CORRECTION

Check the HV charging process according to the procedure below.

PROCEDURE



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

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



2. **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.

3. 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.

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

5. 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**

PARTS INFORMATION

Required only after failed the charging test procedure:

Enter a TC Case only if **KLE fault code 21E64A is present**, once reviewed a part will be ordered on your behalf.

Part Number	Description	Quantity
61 44 8 678 851	Charging module KLE	1

WARRANTY INFORMATION

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

Defect Code:	00 61 44 04 00
---------------------	-----------------------

Testing HV Charging Only

Labor Operation:	Labor Allowance:	Description:
00 64 709	3 FRU	Testing HV charging with charging cable (Plus work)

Or, if required

Testing HV Charging and Replacing the KLE

Labor Operation:	Labor Allowance:	Description:
00 64 719	30 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)

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 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.

Alternative Mobility Solutions (AMS) Reimbursement

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

ATTACHMENTS

View JPG attachment [GRUSB6116 14.](#)

View JPG attachment [GRUSB6116 15.](#)

View PDF attachment [B612816 VIN List.](#)

View PDF attachment [B612816 Delivery Stop Legal.](#)

[Copyright ©2017 BMW of North America, Inc.]