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Order No.: SM-B-54.10/09
Group: 54

SUBJECT: MY-All, Model 451.390/391/490/491

Preparation for Performing Maintenance Service or Status Check of High-Voltage Battery

When doing service maintenance for smart electric drive 3rd Generation vehicles the high-voltage battery is to be tested (AP54.10P-5451MEX) as per maintenance sheet (AP00.20-P-1229MEX) in the Additional operations section. To ensure that any losses in capacity are reliably determined during the test, the high-voltage battery has to undergo a specific discharge cycle before conducting the test step.

Important Customer Communication Information

The customer must be notified when agreeing on an appointment, i.e. before the workshop date, that he must perform the following step before the maintenance service, insofar as this is not part of the customer's normal driving cycle:

- Drive vehicle (discharge) to < 40 % SOC (see left-hand round "SOC" dial on instrument panel).
- Leave vehicle parked for approximately 2 hours (no driving, no charging).
- After this idle period of approximately 2 hours, connect the charging cable, and fully charge the vehicle to 100 % SOC.
- The vehicle can then be operated normally again.
- By discharging to < 40 % SOC, having an idle period, and then the renewed charging process, the high-voltage battery undergoes a capacity test. The test result is then read out during maintenance. This cycle must be run through once, 3 weeks before the maintenance service. If, by contrast, the vehicle is only ever driven when in the high SOC range, this test cannot be successfully undertaken.

Important Workshop Process Information

When conducting the maintenance service as per maintenance sheet (AP00.20- P- 1229MEX) the high-voltage battery (AP54.10-P-5451MEX) must be tested as stated in the Additional operations section.

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- If this procedure can be conducted, the corresponding capacity value is then shown. The test log is to be included with the maintenance documents, and handed over to the customer when requested.
- If this procedure does not produce a valid value, then the procedure within this maintenance service shall end here, i.e., no further tests shall be made.
- In the event of customer complaint, i.e., where the customer makes an express request, a capacity test can be conducted at any given time using XENTRY DAS through the "High-voltage battery – Complaint" guided tests, and it can be settled taking the applicable warranty policy into consideration.
- In this case, please notify the customer that the vehicle should again be discharged and charged, shortly before the next maintenance service, to enable a valid and current capacity value to be determined (see "Customer communication" section).

Notes on cost settlement:

- For maintenance care customers, only the high-voltage battery test as per the applicable guidelines will be covered under warranty and through damage code 0080F.

WIS References

SERVICE OVERVIEW for ASSYST	AP00.20-P-1229MEX
High-voltage battery – Check capacity	AP54.10-P-5451MEX