

FUB-FPA-FP-610007-A15 FUB-FPA-FP-610007-A15 - Starting up the high-voltage battery unit after repair - V.6, VIN: XXXXXXXX

ISTA system version	4.19.21.18914	Data version	R4.19.21	Programming data	-
VIN	XXXXXXX	Vehicle	I/I15/Roadster/i8/B38,IB1/AUTO/ECE/LL/2017/05		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	-				

In this document the process steps of the service function are described for the start-up of the high-voltage battery unit, if one or more cell supervision circuits, one or more cell modules or the SME have been renewed.

Test code of EoS tester

After a successful repair and a passed EoS test, the EoS tester displays a 12-digit test code. This test code must be entered at the beginning of the service function.

The release of the switch contactor for the start-up of the high-voltage battery unit only takes place at the end of the service function if both of the following preconditions are met:

- The check of the entered test code is successful.
- The activation of the switch contactor from the high-voltage battery unit was deactivated by the EoS tester.



Note!

If the test code has only 11 digits, then insert a zero as the first digit: 123456789AB -> 0123456789AB

If the EoS tester issues an 11-digit test code, the software of the EoS tester is not up-to-date. Perform a software update of the EoS tester.



Note!

If the test code was already entered once and the service function was successfully finished, the switch contactors of the high-voltage battery unit are released. If a new attempt is made to start the service function and enter the test code, it is detected as invalid.

Start-up after renewing one or more cell modules

1. The installation position of the newly installed cell modules is requested first.
If for example, the cell module in the installation position 4 has been renewed, enter "4". If several cell modules have been renewed, then separate the installation position by a comma without spaces: e.g. "3,6".
2. The serial number of the newly installed cell modules will then be requested.
Since the eight-digit supplier number is the same, the query is divided. First the beginning of the serial number (seven-digit part number and two-digit revision index) is requested; then the end of the serial number (six-digit production date and five-digit serial number without spaces or hyphen).
3. An overview of the input is displayed.
If everything was entered correctly, the serial number is then written and logged in the SME. Else, the entries can be repeated.
4. Due to the repair work, the stored allocation between the installation positions and the serial numbers of

the individual cell supervision circuits may have changed.

The service function shows the overview and offers the option of correcting the allocation stepwise: Two installation positions are exchanged at the same time. The process must be repeated as long as the allocation is not correct.



Caution!

The correct documentation and entry of serial numbers and installation positions are extremely important. If an incorrect installation position is entered, all faults reported by the cell supervision circuit in the event of a later defect will be displayed for the incorrect installation position and, as a result, it will be replaced in the incorrect place!

Start-up after renewing one or more cell supervision circuits



Note!

For the cell supervision circuits, no digit input of the serial number is necessary. The newly installed cell supervision circuit communicates with the SME via the local CAN and transmits its serial number.

1. The service function shows the new allocation between the installation positions and the serial number of the individual cell supervision circuits.
Check the allocation and correct, if it is not correct: The allocation can be corrected stepwise. Two installation positions are exchanged at the same time. The process must be repeated as long as the allocation is not correct.
2. An overview of the input is displayed.
If everything was entered correctly, the serial number is then written and logged in the SME. Else, the entries can be repeated.



Caution!

The correct documentation and entry of serial numbers and installation positions are extremely important. If an incorrect installation position is entered, all faults reported by the cell supervision circuit in the event of a later defect will be displayed for the incorrect installation position and, as a result, it will be replaced in the incorrect place!

Stepwise correction of the allocation of the installation position and serial number

For example, the cell supervision circuit with the following serial number was newly installed in the installation position 4a: 7648785-02 114191 10 24.11.14 TZ: 00343

- The automatic allocation of the installation position in the SME then has the following result:

Installation position	Serial number
1a	7648785-02 114191 10 24.11.14 TZ: 00343
2a	7648785-02 114191 10 13.03.14 TZ: 00718
3a	7648785-02 114191 10 13.03.14 TZ: 00715
4a	7648785-02 114191 10 13.03.14 TZ: 00716

5a	7648785-02 114191 10 13.03.14 TZ: 00729
6a	7648785-02 114191 10 13.03.14 TZ: 00726
7a	7648785-02 114191 10 13.03.14 TZ: 00723
8a	7648785-02 114191 10 13.03.14 TZ: 00722

During the automatic allocation of the installation position, the cell supervision circuits in installation position 1a and in installation position 4a were mixed up. Through the input of the two installation positions that are to be swapped ("1,4"), the allocation is corrected.

- Corrected allocation after the exchange of the two installation positions:

Installation position	Serial number
1a	7648785-02 114191 10 13.03.14 TZ: 00716
2a	7648785-02 114191 10 13.03.14 TZ: 00718
3a	7648785-02 114191 10 13.03.14 TZ: 00715
4a	7648785-02 114191 10 24.11.14 TZ: 00343
5a	7648785-02 114191 10 13.03.14 TZ: 00729
6a	7648785-02 114191 10 13.03.14 TZ: 00726
7a	7648785-02 114191 10 13.03.14 TZ: 00723
8a	7648785-02 114191 10 13.03.14 TZ: 00722

- The correct allocation can now be stored in the SME.

Start-up after the renewal of the SME control unit



Note!

During a guided control unit exchange with the programming system, the installation positions and serial numbers of the cell modules and cell supervision circuits are transferred into the new SME.

After renewing the SME, the serial number of the high-voltage battery unit must be written in the new control unit. The ten-digit serial number of the high-voltage battery unit is located on the type plate on the housing.



Caution!

The serial number can only be stored once in the new SME. Check the accuracy of the digit input carefully before writing the entered serial number in the SME.