

Does BMW iX have a high-voltage battery?

Check out this new video from BMW to see how the high-voltage battery in the BMW iX is assembled at the factory.

How EV battery assembly works?

Lid assembly with flow drilling fastening is an efficient one-shot process. The joint is entered from one side and allows disassembly later on. The assembly process of a high voltage EV battery pack has a strong influence on the performance, safety and durability of the battery.

How to tighten a battery?

To guarantee even distribution and full contact between the battery modules and the thermal compound, the tightening process needs to be fully controllable. An electronically controlled multi-spindle solution is recommended to achieve an even tightening process.

Why do battery cells need a bubble-free solution?

Battery cells must be operated within a specific temperature range to preserve their performance and avoid overheating. For this reason, a heat-conducting paste is applied. But to guarantee thermal conductivity, a bubble free result is crucial. This is a challenge, because the liquid gap filler material is applied at high volumes.

Why is heat-conducting paste important in battery manufacturing?

A huge challenge in battery manufacturing is temperature management. Battery cells must be operated within a specific temperature range to preserve their performance and avoid overheating. For this reason, a heat-conducting paste is applied. But to guarantee thermal conductivity, a bubble free result is crucial.

How to protect a battery if a car crashes?

To protect the battery in case of a crash, cell stacks can be reinforced with lateral braces. Common joining techniques like spot welding are not suitable for this assembly step, because they create heat and welding splatter that can harm the sensitive cells. The solution is a cold joining technique such as self-pierce riveting.

After each hour of operation, the HV battery discharger prompts the operator to press the START/STOP button again, so as to enforce proper monitoring of the ...

The assembly process of a high voltage EV battery pack has a strong influence on the performance, safety and durability of the battery. Choosing the right joining technology for the special requirements of battery ...

The BMW iX is ready for series production and is due to arrive on the world's roads from November 2021. The BMW Group's new technology flagship combines locally emission-free driving pleasure, ...

Enable Service Mode Plus. See .; Identify the vehicle's current SOC Max: In the Service Mode Plus menu, touch High Voltage > HV Battery, and then touch the large HV ...

In this video we show you how we are handling our High Voltage Car Batteries! In the nearby future, we will witness an increase in the demand for safe disman...

The acceptable resistance is between 0.050 mΩ (50 mΩ) and 0.195 mΩ (195 mΩ). If the resistance is greater than 0.195 mΩ (195 mΩ), there is too much resistance in the ...

BMS PCBA - High Voltage Battery Assembly (HV Battery 2.0) (Remove & Replace) Correction code 16302202. 2024-07-08: Swapped illustrations in steps for Hioki ...

Shows how the Model 3 HV system is routed on the bottom of the car. The only part not shown is the connection for the charge port which is located on top. ...

**WARNING:** High voltage (324 v) Battery assembly should be installed, adjusted, or serviced by qualified service maintenance personnel familiar with the operat...

High Voltage Battery vs Low Voltage Battery: Which is Better for You? Part 5. Factors to consider when choosing a high-voltage battery. Selecting the correct high ...

This video shows the correct procedure to remove the high voltage battery safety plug (Service Plug) in all Hyundai and KIA Hybrid vehicles.

Web: <https://www.vielec-electricite.fr>