

DET Supplemental Document

M5-1 Auxiliary Battery

Condition

- Vehicle : Vehicles with Auxiliary Batteries in engine or luggage compartment
- Part and structure : Fixation structure of Auxiliary Battery

☞ Auxiliary Batteries installed in the cabin are not the subject to be checked



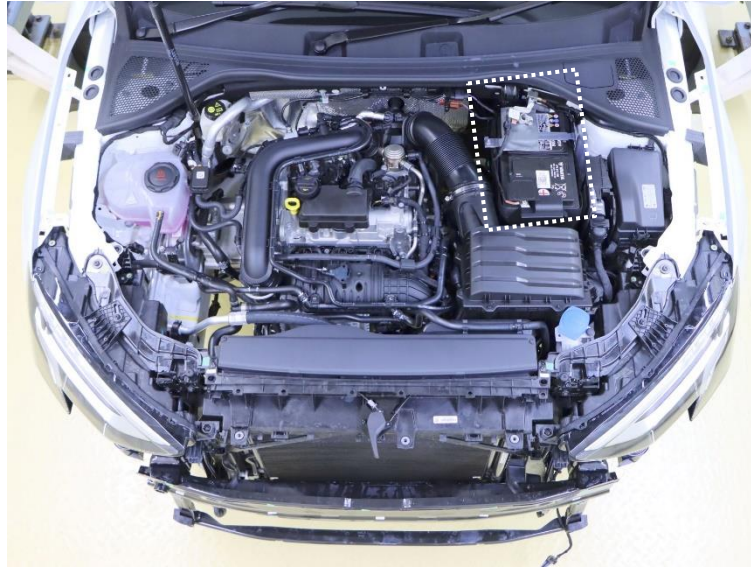
Exclusion of this evaluation



Auxiliary Battery in the cabin

Criteria

The Auxiliary Battery should be fixed directly and at least partly to the body to prevent moving during a collision.



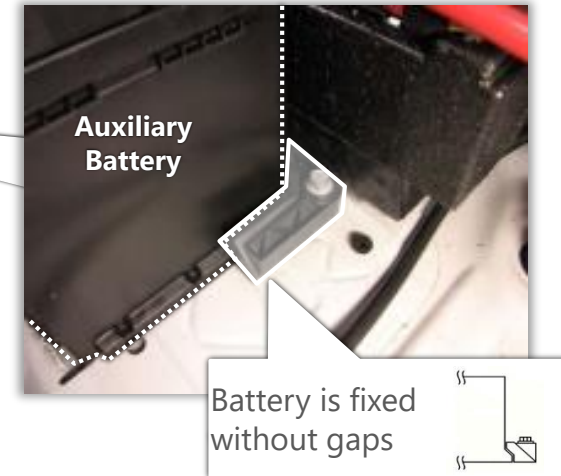
Reason

When the Auxiliary Battery is fixed directly to the body, the Battery is less likely to move during a collision, which prevent damages to the Battery itself and parts around the Battery.

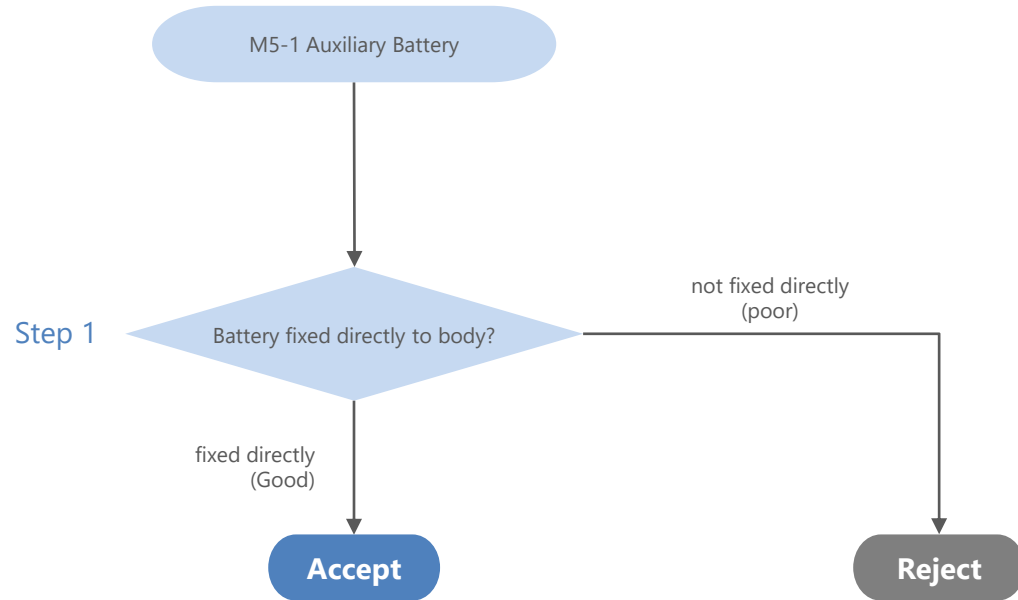


Example of the direct fixation of the Battery

The bottom of the Battery is fixed directly to the body without gaps, which prevents moving during a collision.



Check Flow



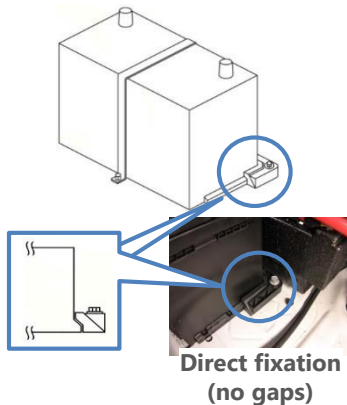
Check – Step 1

Check if the Auxiliary Battery is fixed directly to the body.

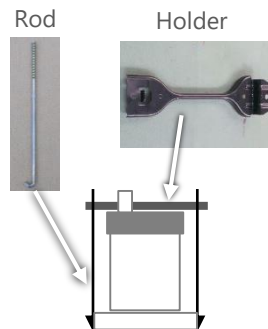
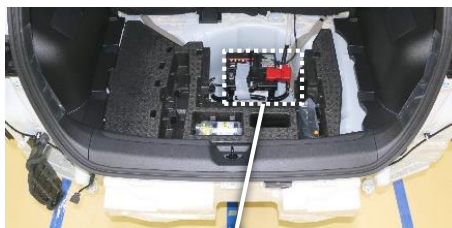
☞ When the Battery is fixed to the body (including brackets) without gaps, the structure is determined as the direct fixation.

【Determination】

Good



Poor



Holding with a holder pulled by rods
(there is room where battery can move)

Good

☞ The direct fixation is determined as Good structure and **Accept**

Poor

☞ Fixation with gaps like holding with a holder pulled by rods, which makes room where the Battery could move during a collision, is determined Poor and **Reject**