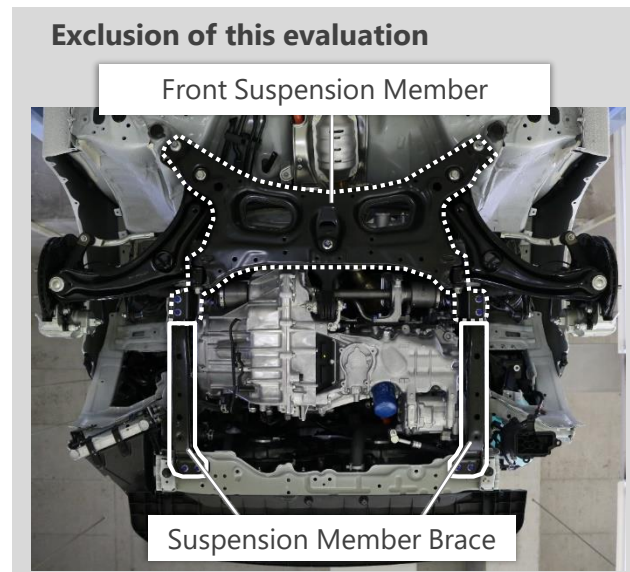
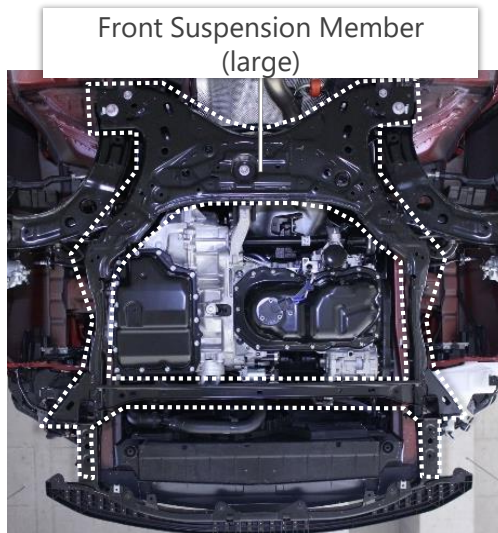
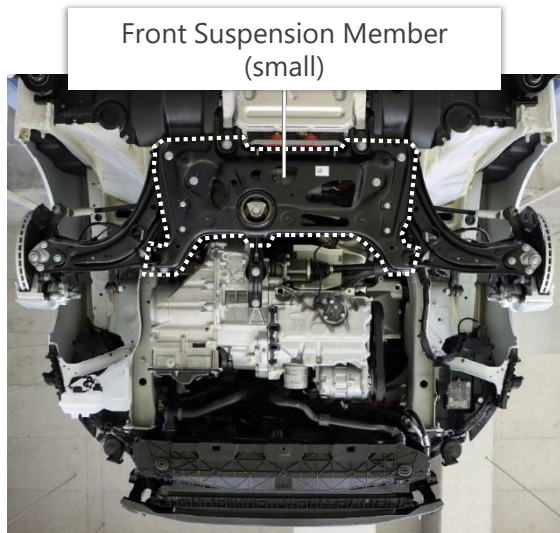


DET Supplemental Document

M6-1 Front Suspension Member

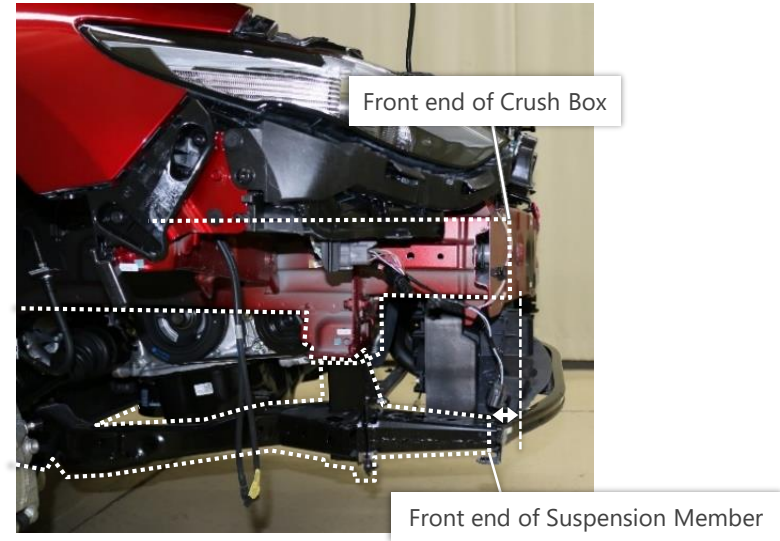
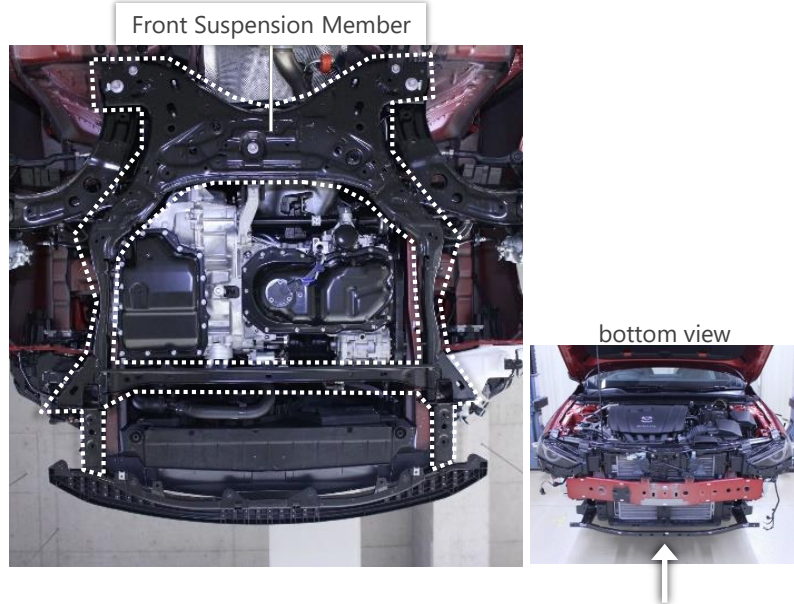
Condition

- Vehicle : Vehicles with Front Suspension Member without Suspension Member Brace
- Part and Structure : Front end of Front Suspension Member and Front Crush Box
 - ☞ Vehicles with the Suspension Member Brace which is the lower load path fixed to the Front Suspension Member with bolts or nuts are not the subject to be checked.
(Vehicles with the Suspension Member Brace are checked in DET item No. M6-2)



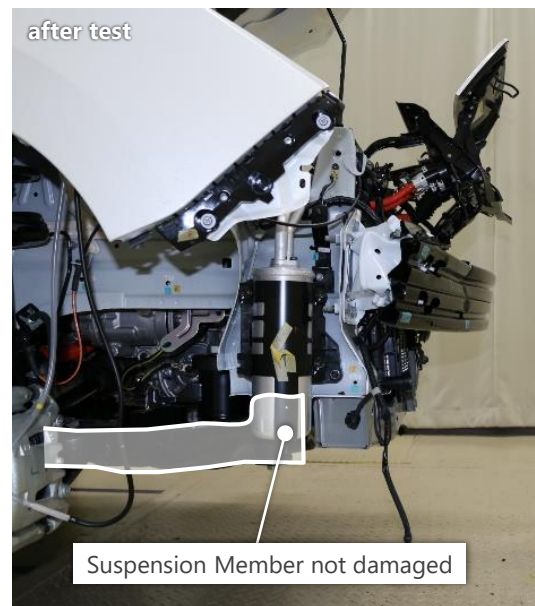
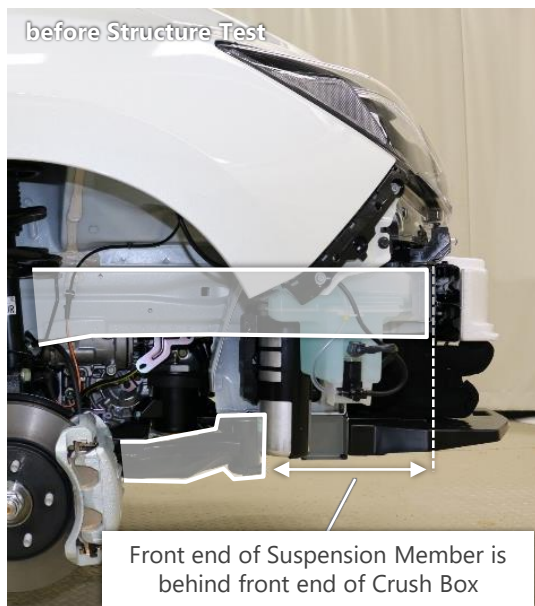
Criteria

The front end of the Front Suspension Member should be in the same as or behind the front end of the Front Crash Box.

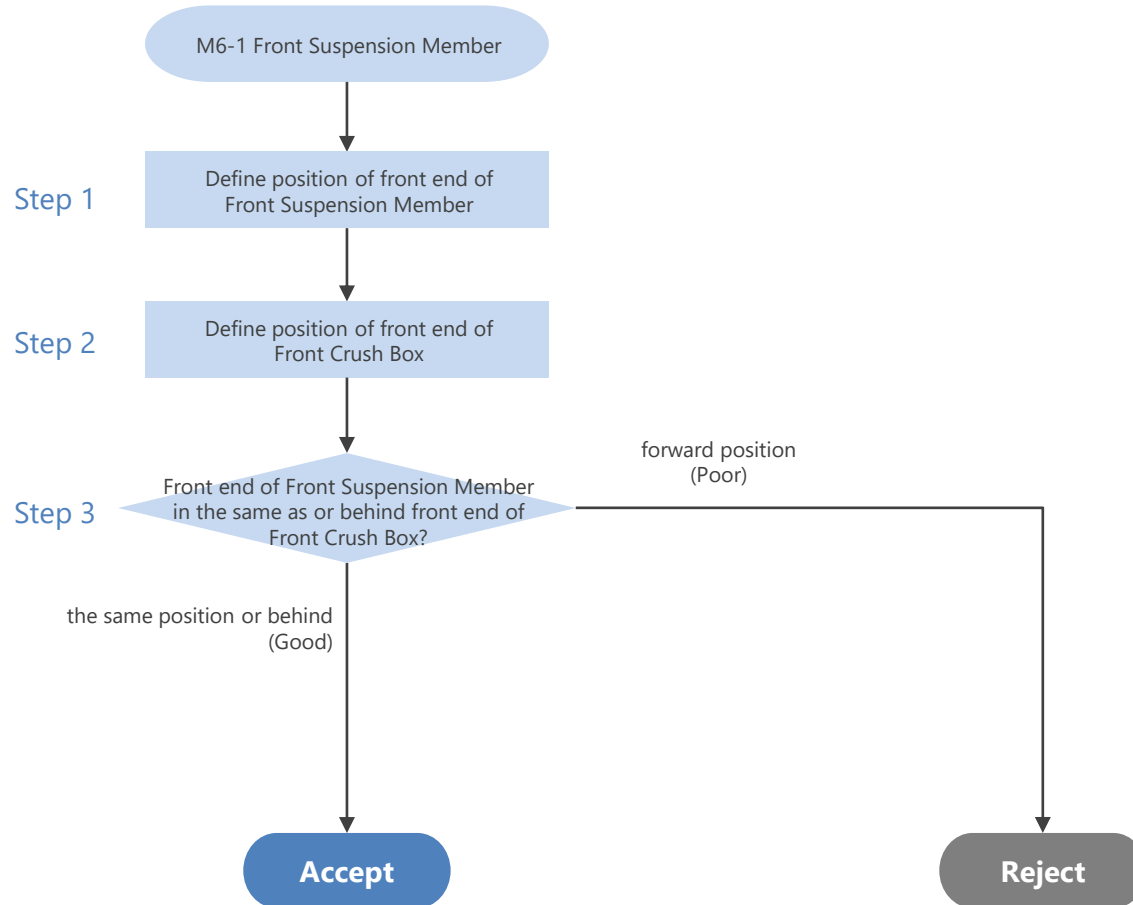


Reason

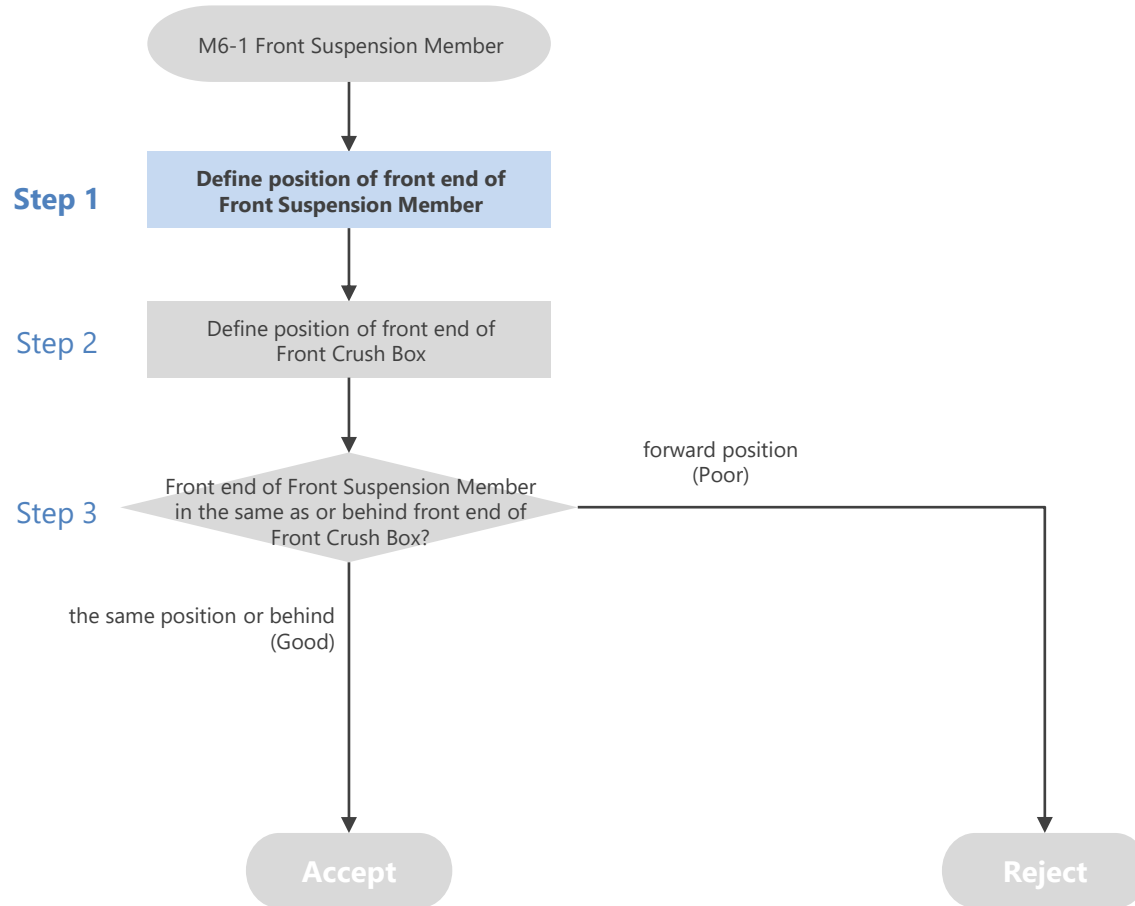
When the front end of the Front Suspension Member is in the same as or behind the front end of the Front Crash Box, the Front Suspension Member is less likely to be damaged on the Bumper and Structure Test.



Check Flow



Check Flow – Step 1



Check – Step 1

Define the front end of the Front Suspension Member.

【Determination】



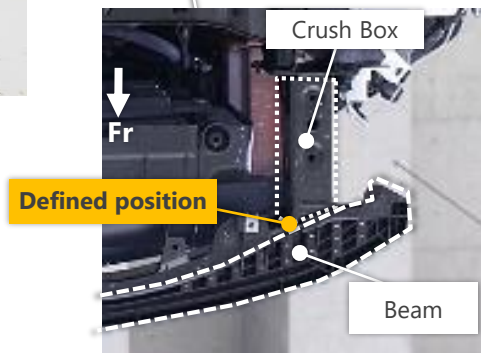
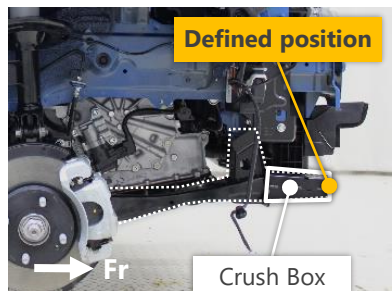
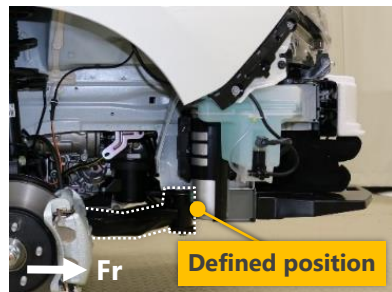
When there is no Crus Box on the front end of the Front Suspension Member, the front end of the Suspension Member is the position.



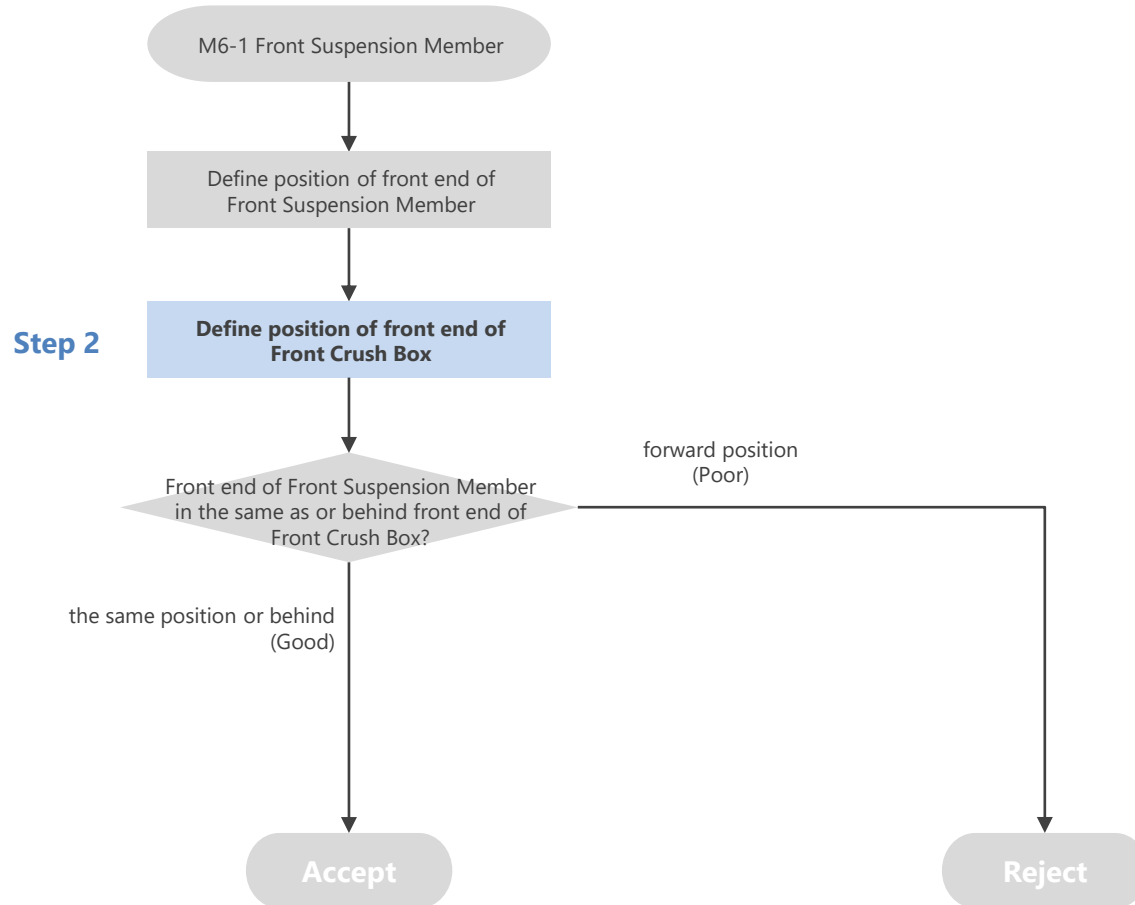
When there is the Crush Box on the front end of the Front Suspension Member, the tip of the Crush box is the position.



When there is the Crush Box with the Beam on the front end of the Suspension Member, the front end of the Crush Box, excluding the Beam and the area where the Beam and the Crush Box are overlap, is the position.



Check Flow – Step 2

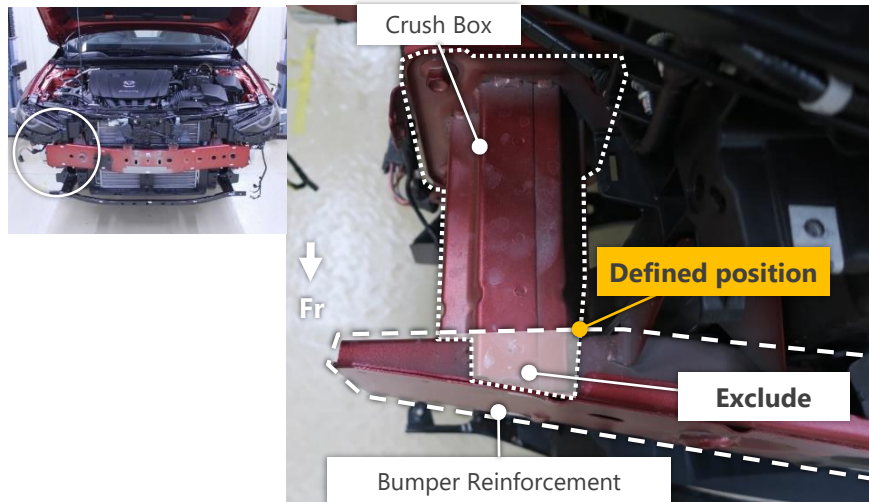


Check – Step 2

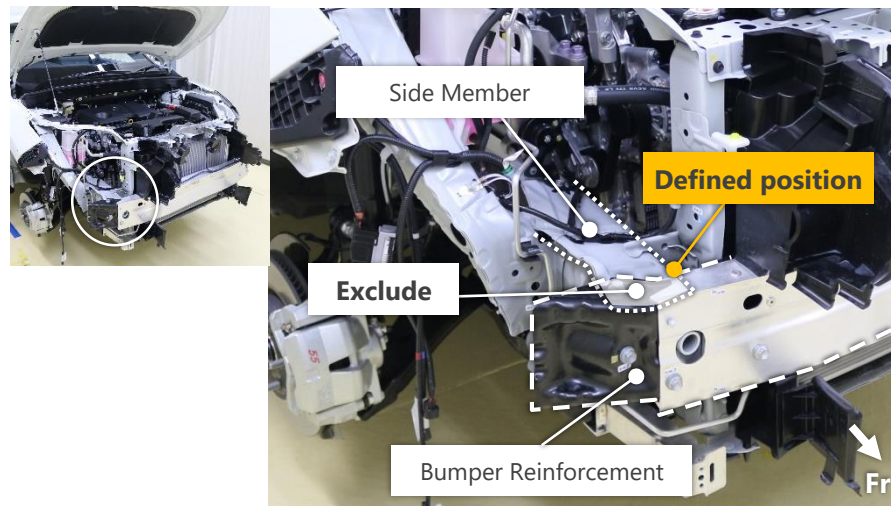
Define the front end of the Front Crush Box.

【Determination】

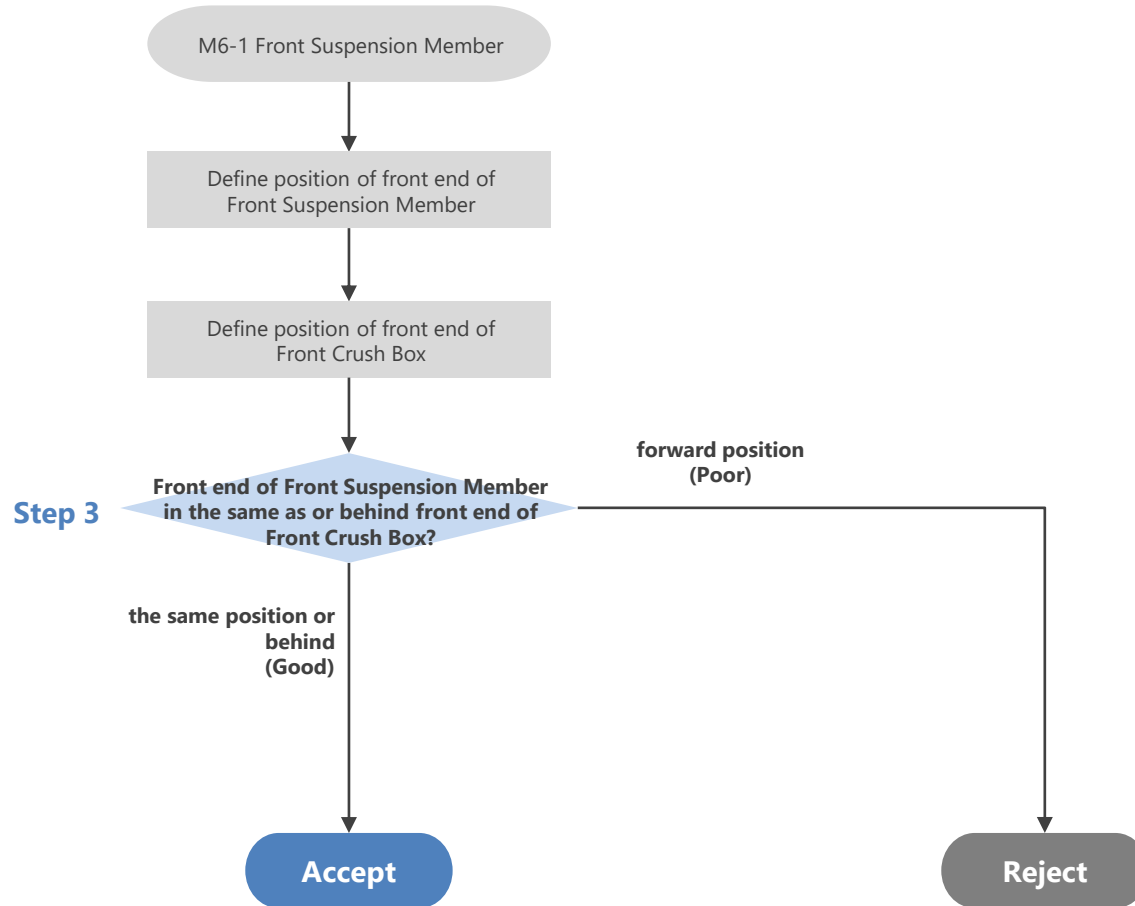
- Excluding the overlap part of the Crush Box and the Front Bumper Reinforcement, the inside front end of the Front Crush Box is the position.



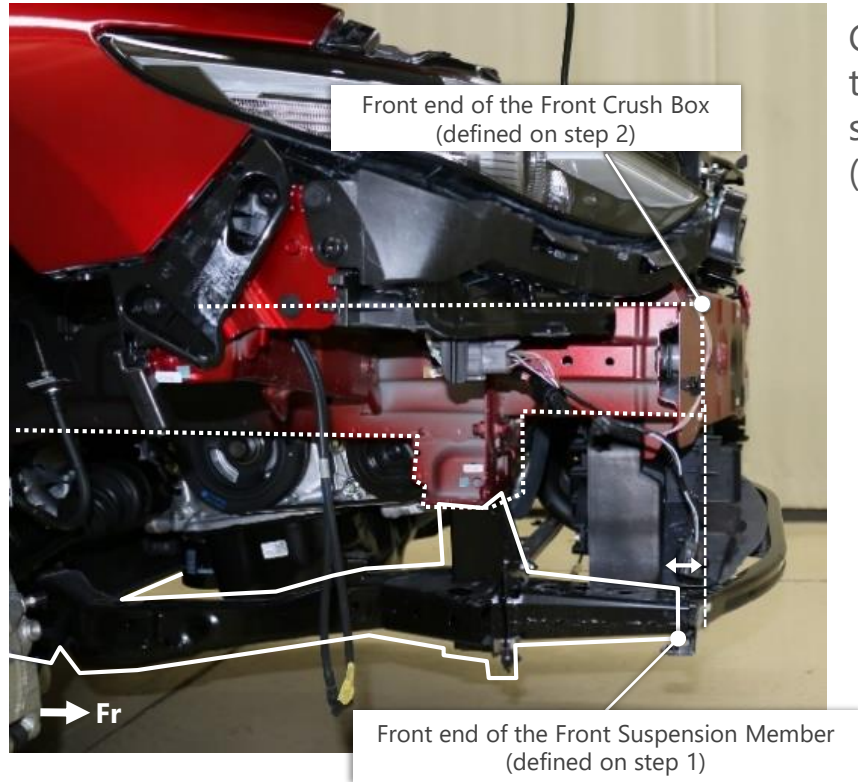
- When the Front Crush Box is not installed, the inside front end of the Front Side Member is the position.



Check Flow – Step 3

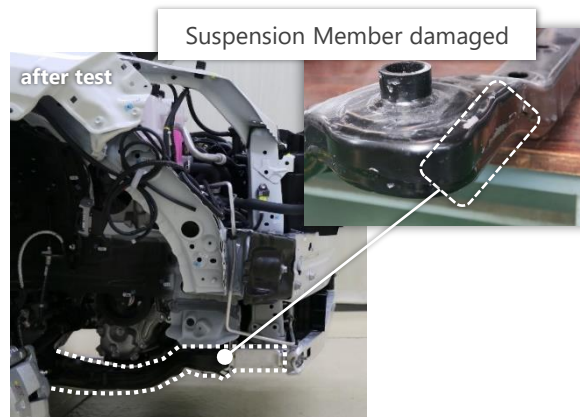
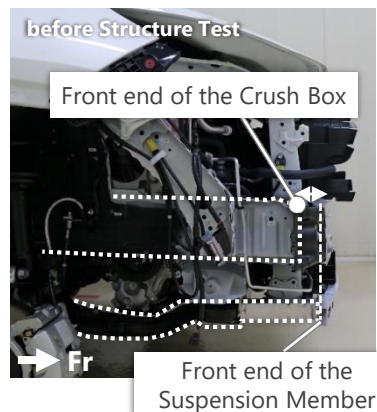
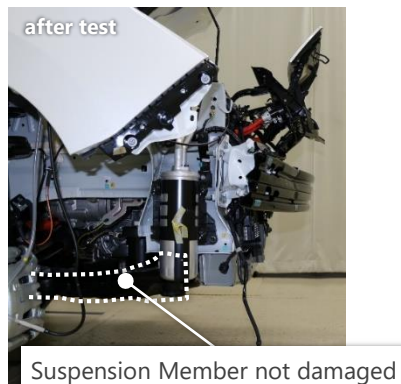
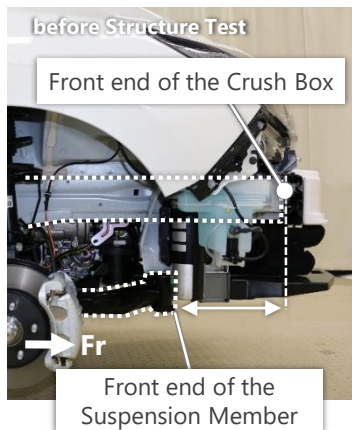


Check – Step 3-1



Check if the forward-backward position of the front end of the Front Suspension Member (defined on step 1) is in the same as or behind the front end of the Crush Box (defined on step 2).

Check – Step 3-2



【Determination】

Good

- ☞ When the forward-backward position of the front end of the Suspension Member is in the same as or behind the front end of the Crush Box, it is determined as Good and **Accept**

Poor

- ☞ When the forward-backward position of the front end of the Suspension Member is in front of the front end of the Crush Box, it is determined as Poor and **Reject**