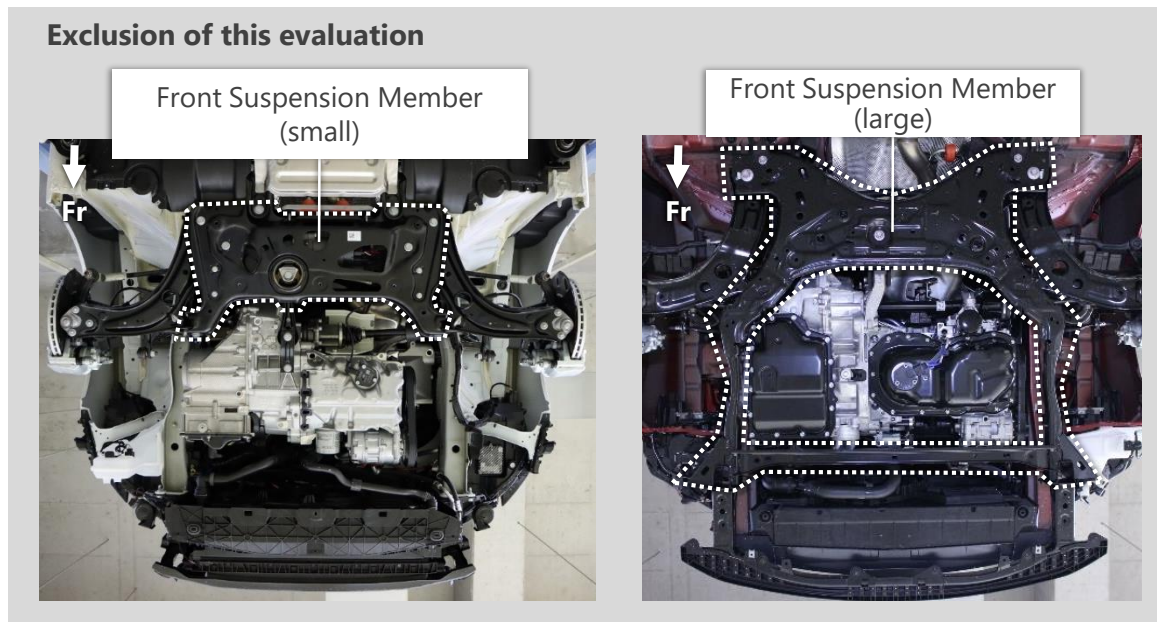
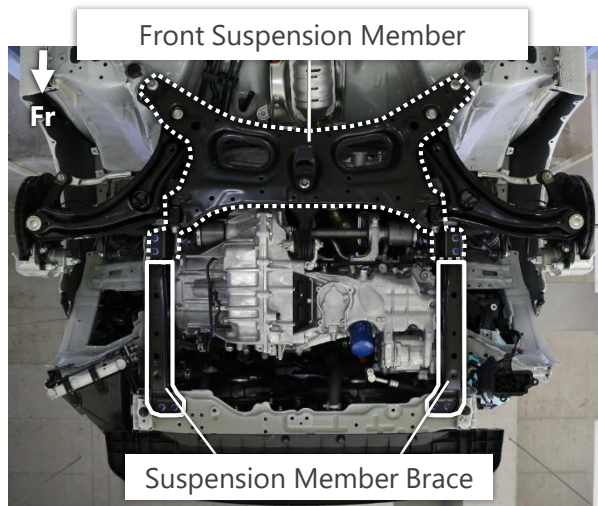


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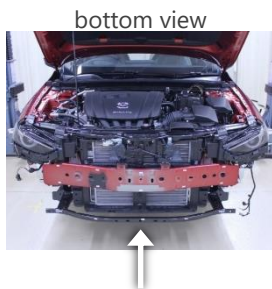
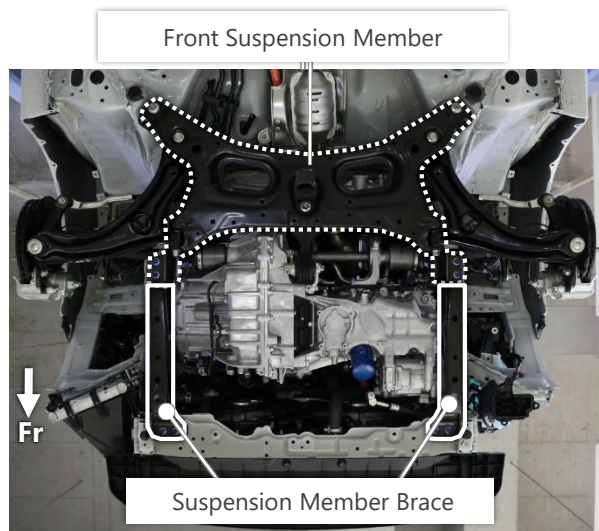
M6-2 Front Suspension Member

Condition

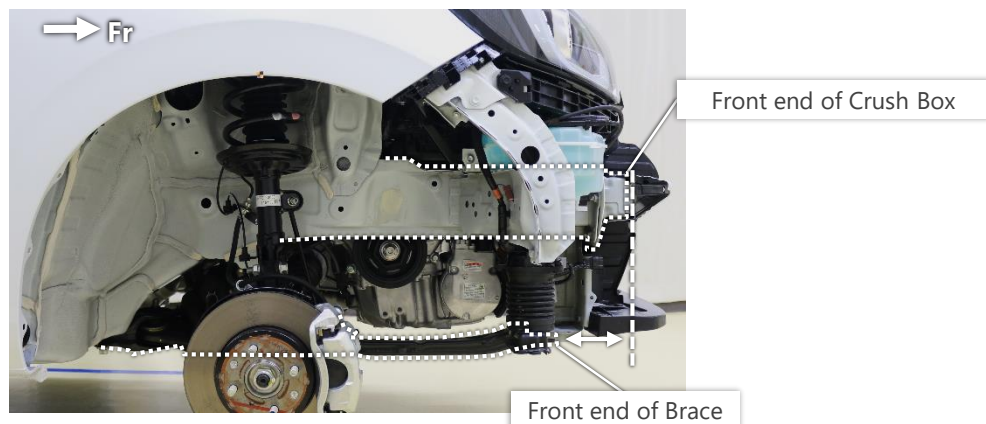
- Vehicle : Vehicles with Front Suspension Member and Suspension Member Brace
- Part and Structure : Front end of Front Suspension Member Brace and Front Crush Box
 - ☞ Vehicles without Suspension Member Brace which is fixed to the Front Suspension Member with bolts or nuts are not the subject to be checked.
(Vehicles without the Suspension Member Brace are checked in DET item No. M6-1)



Criteria



The front end of the Front Suspension Member Brace* should be at least 140 mm behind the front end of the Front Crush Box.

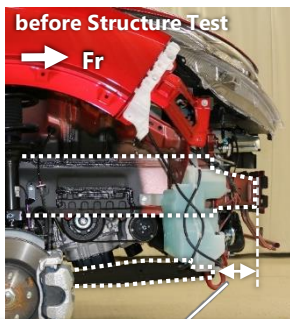


* Front Suspension Member Brace :
lower load bath fixed on the front end of the Suspension Member with bolts or nuts

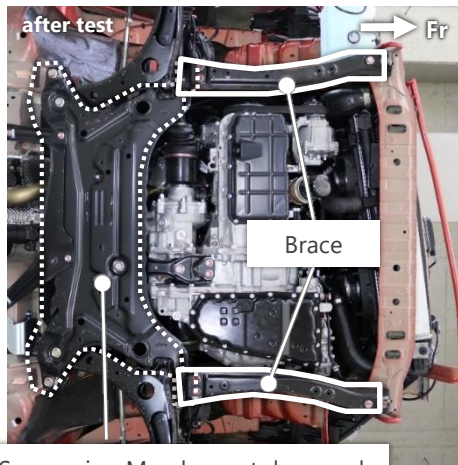
Reason

The Brace attachment part of the Front Suspension Member has lower strength than the welded integral structure Suspension Member, and is easily damaged when force is applied through the Brace on the Structural Test.

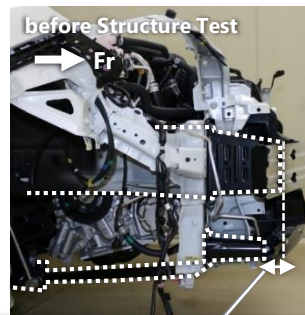
When the front end of the Brace is at least 140 mm behind the front end of the Crush Box, which prevents the Brace from contacting the barrier on the Structure Test, damage to the Suspension Member is less likely to occur.



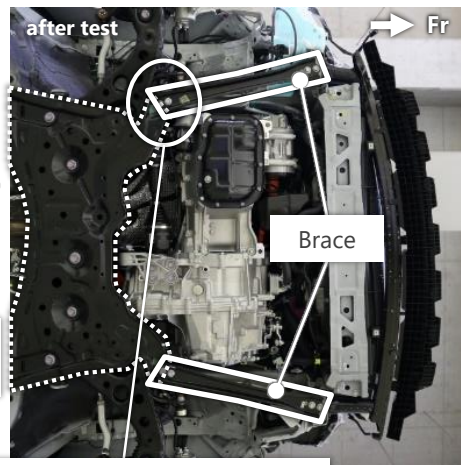
Front end of Brace is more than 140 mm behind that of Crush Box



Suspension Member not damaged

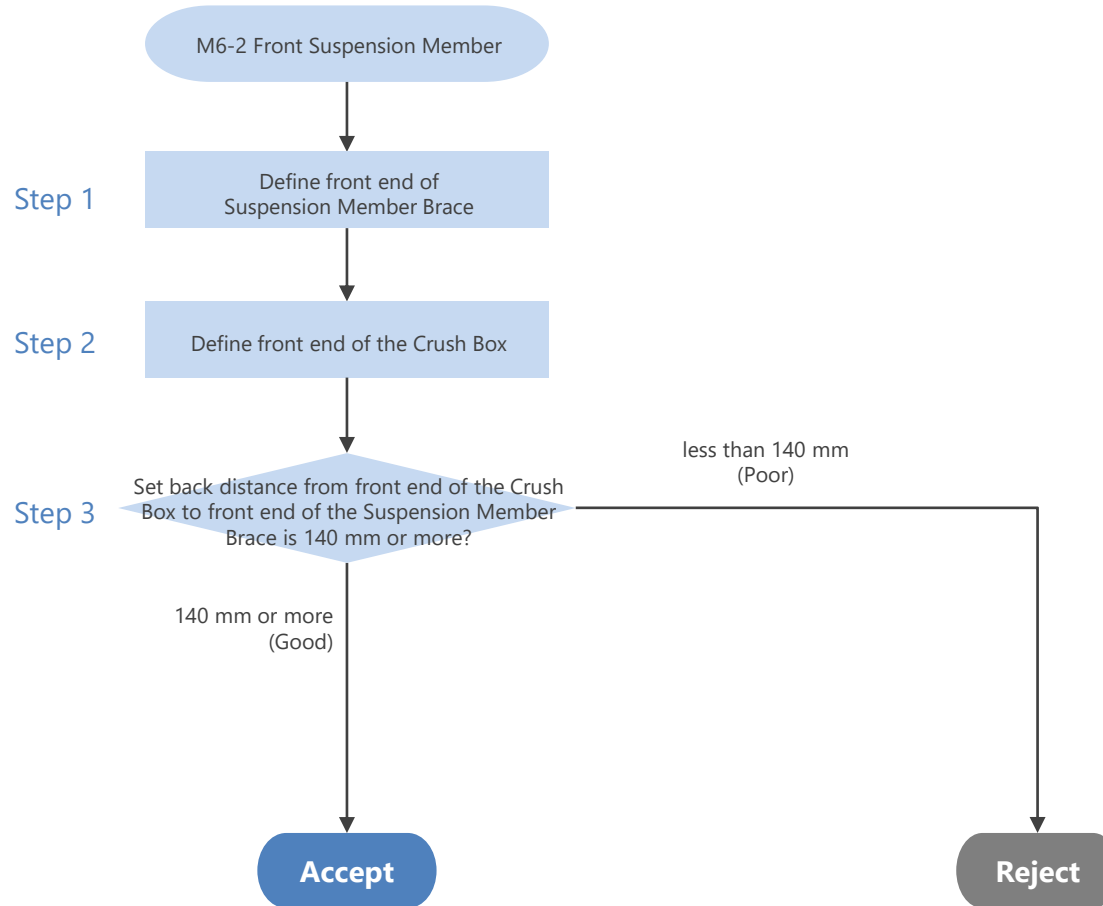


Front end of Brace is less than 140 mm behind that of Crush Box

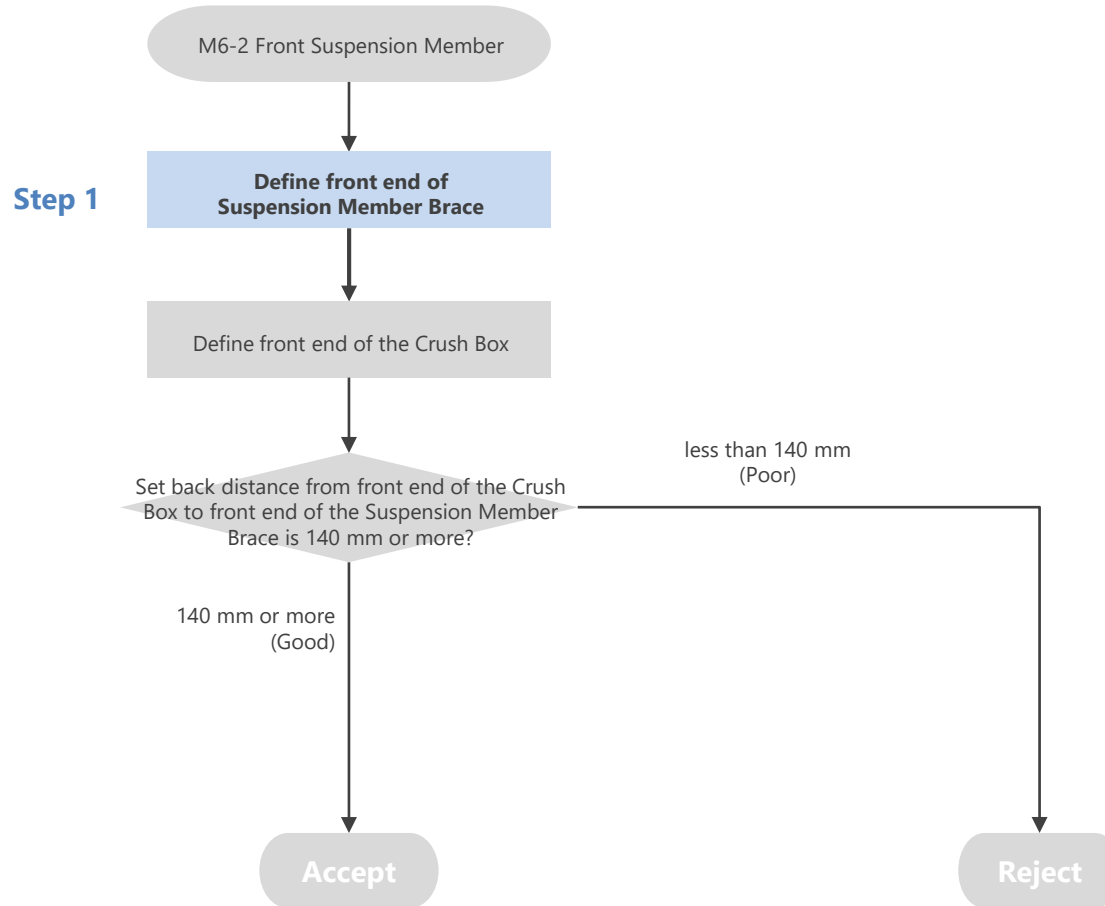


Brace attachment part of Suspension Member damaged

Check Flow



Check Flow – Step 1



Check – Step 1

Define the front end of the Suspension Member Brace.

【Determination】



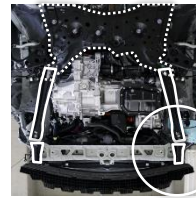
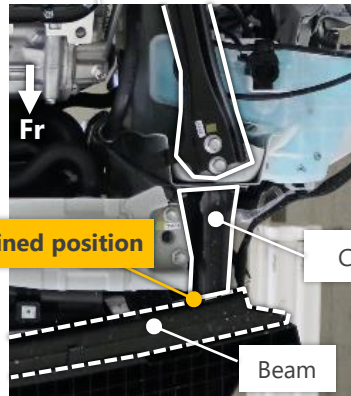
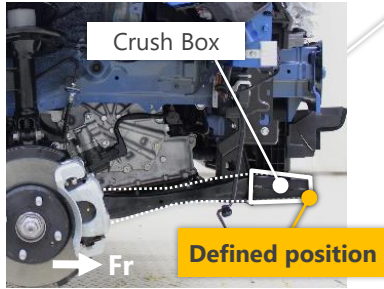
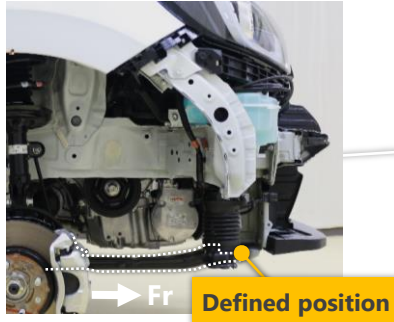
When there is no Crus Box in front of the Suspension Member Brace, the front end of the Suspension Member Brace is the position.



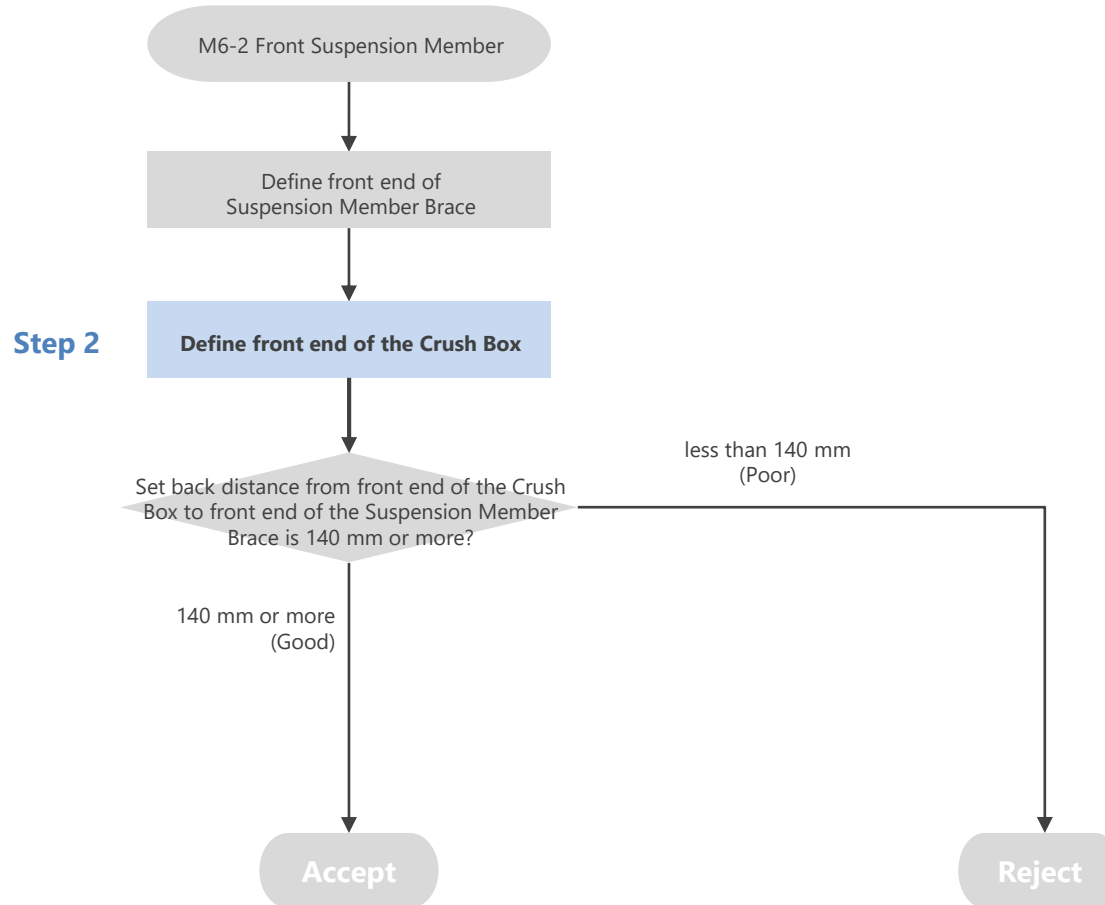
When there is the Crush Box in front of the Suspension Member Brace, the tip of the Crush box is the position.



When there is the Crush Box with the Beam in front of the Suspension Member Brace, 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

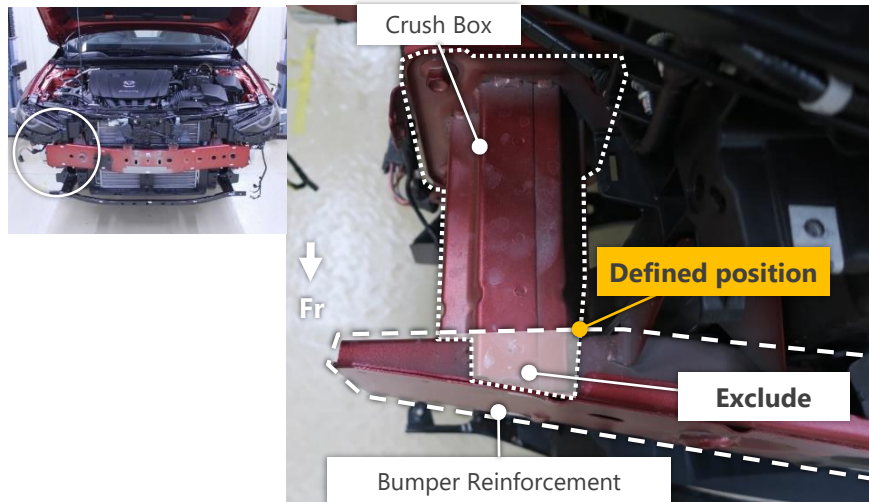


Check – Step 2

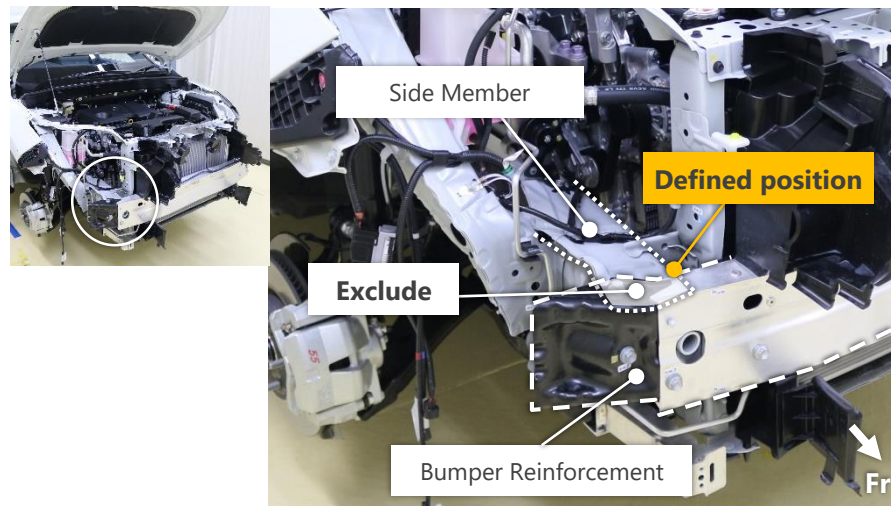
Define the front end of the Front Crush Box.

【Determination】

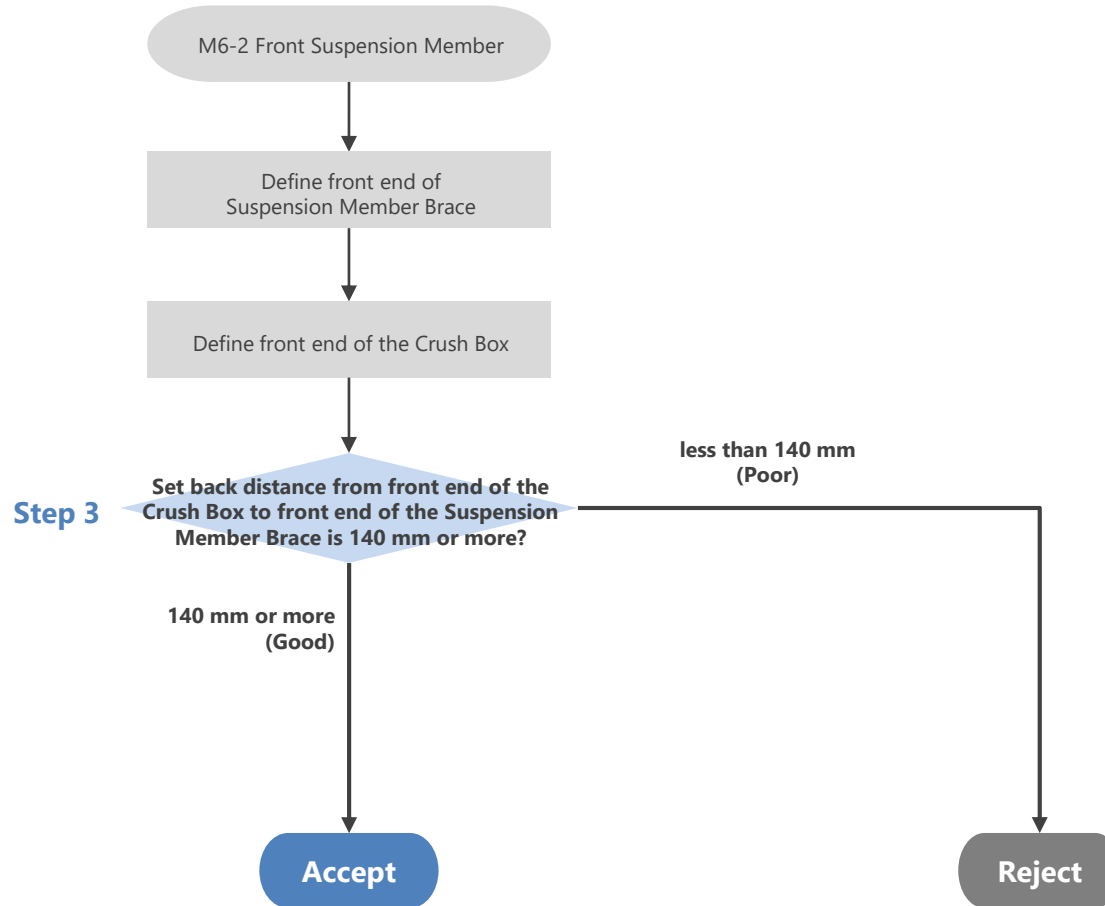
- Excluding the overlap part of the Crush Box and the Front Bumper Reinforcement, the inside front end of the Front Crush Box is the position.



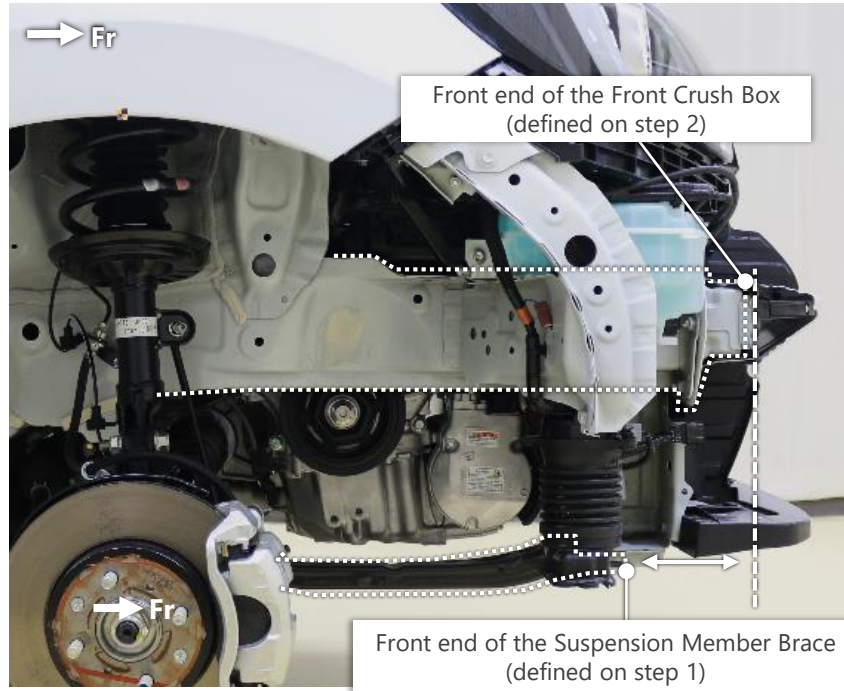
- When the Front Crush Box is not installed, the inside front end of the Front Side Member is the position.



Check Flow – Step 3

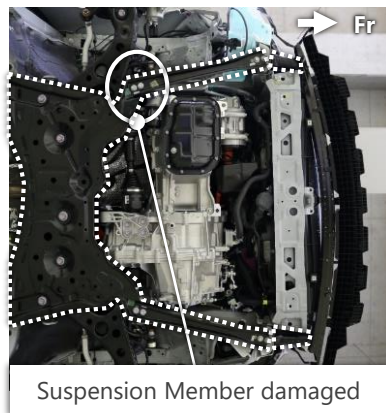
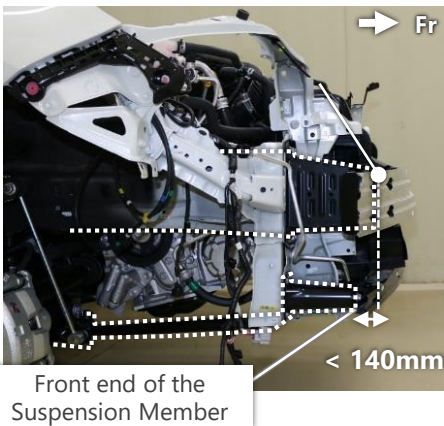
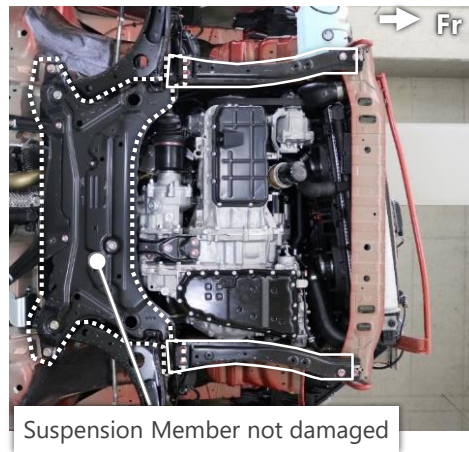
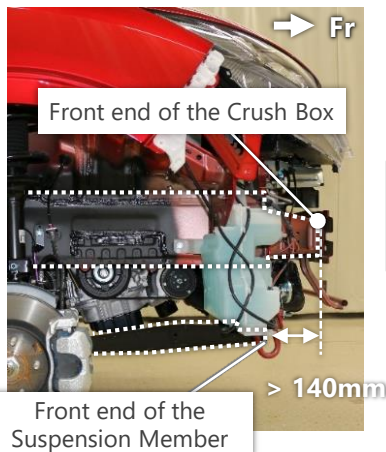


Check – Step 3-1



Check if the forward-backward setback distance from the front end of the Crush Box (defined on step 2) to the front end of the Suspension Member Brace (defined on step 1) is 140 mm or more.

Check – Step 3-2



【Determination】

Good

- When the forward-backward setback distance from the front end of the Crush Box to the front end of the Suspension Member Brace is 140 mm or more, it is determined as Good and **Accept**

Poor

- When the forward-backward setback distance from the front end of the Crush Box to the front end of the Suspension Member Brace is less than 140 mm, it is determined as Poor and **Reject**