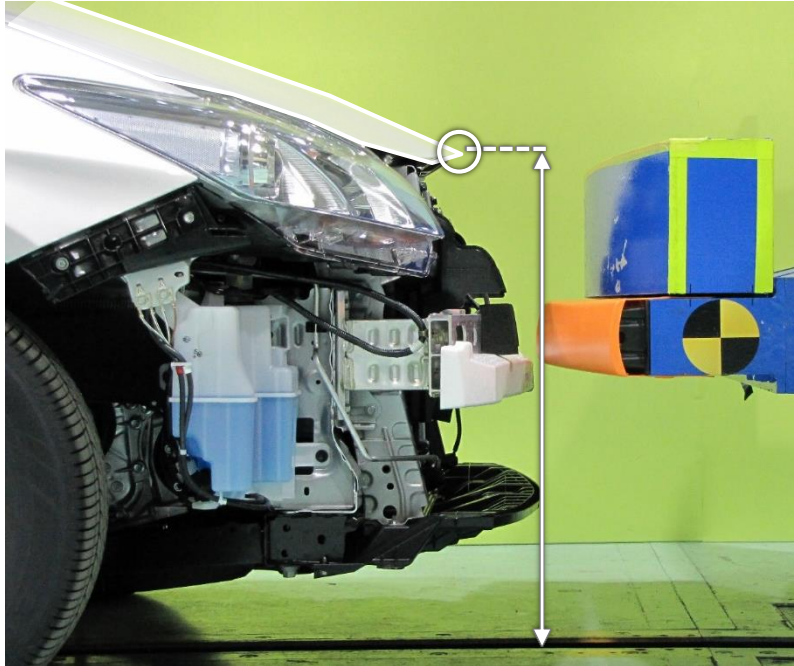


DET Supplemental Document

FB7-2 Hood

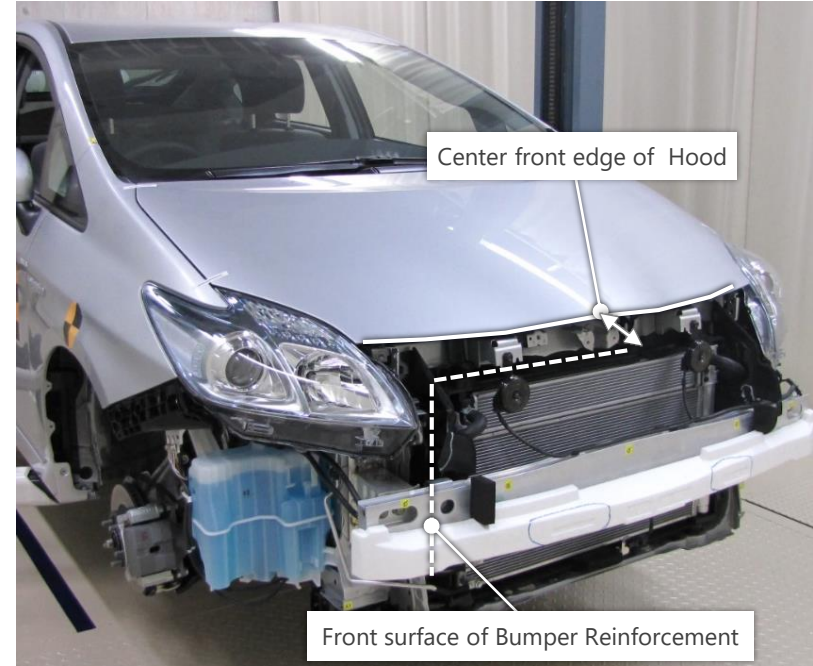
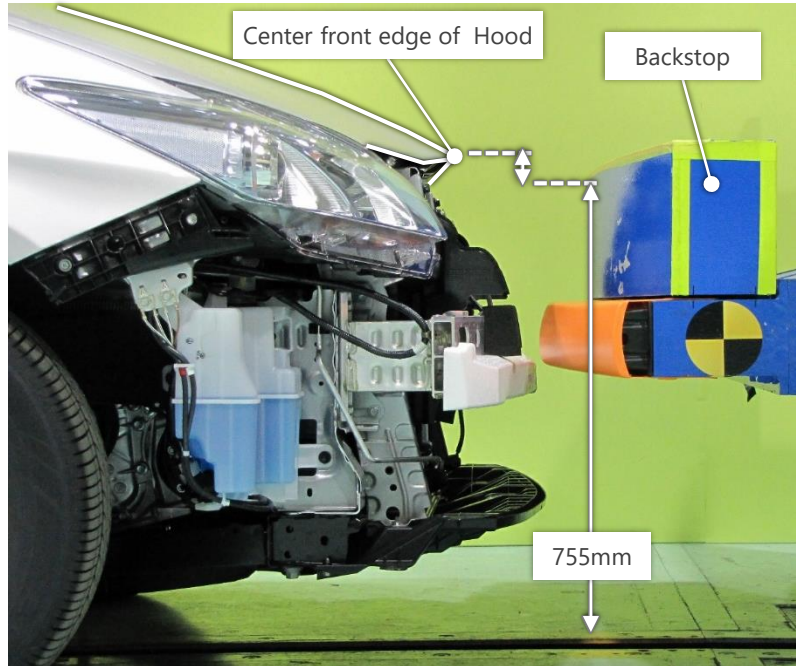
Condition

- Vehicle : All vehicles
- Part and Structure : Center front edge of Hood and front surface of Front Bumper Reinforcement



Criteria

The center front edge of the Hood should be higher than the height of the Backstop of the Bumper Barrier (755 mm), or the edge should be at the same position as or behind the front surface of the Front Bumper Reinforcement.

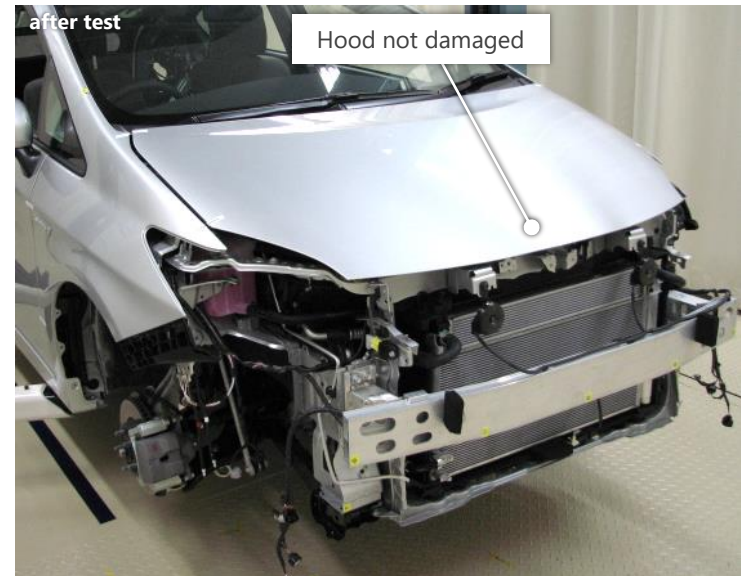
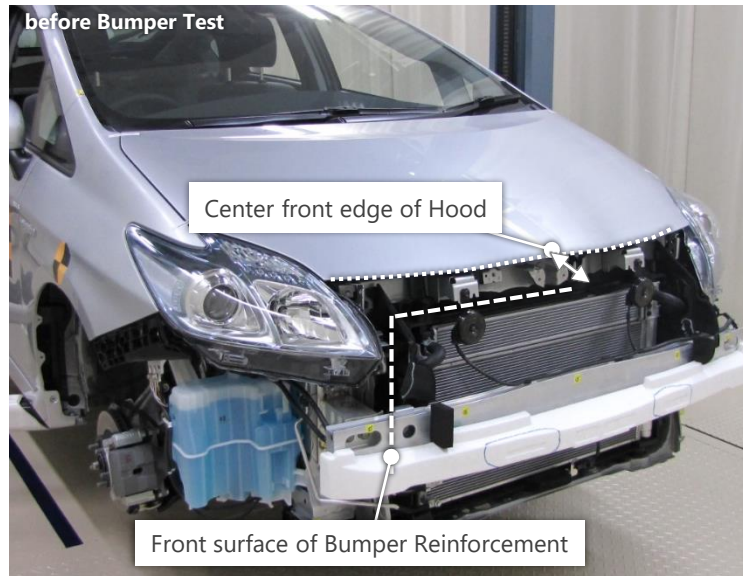


Reason

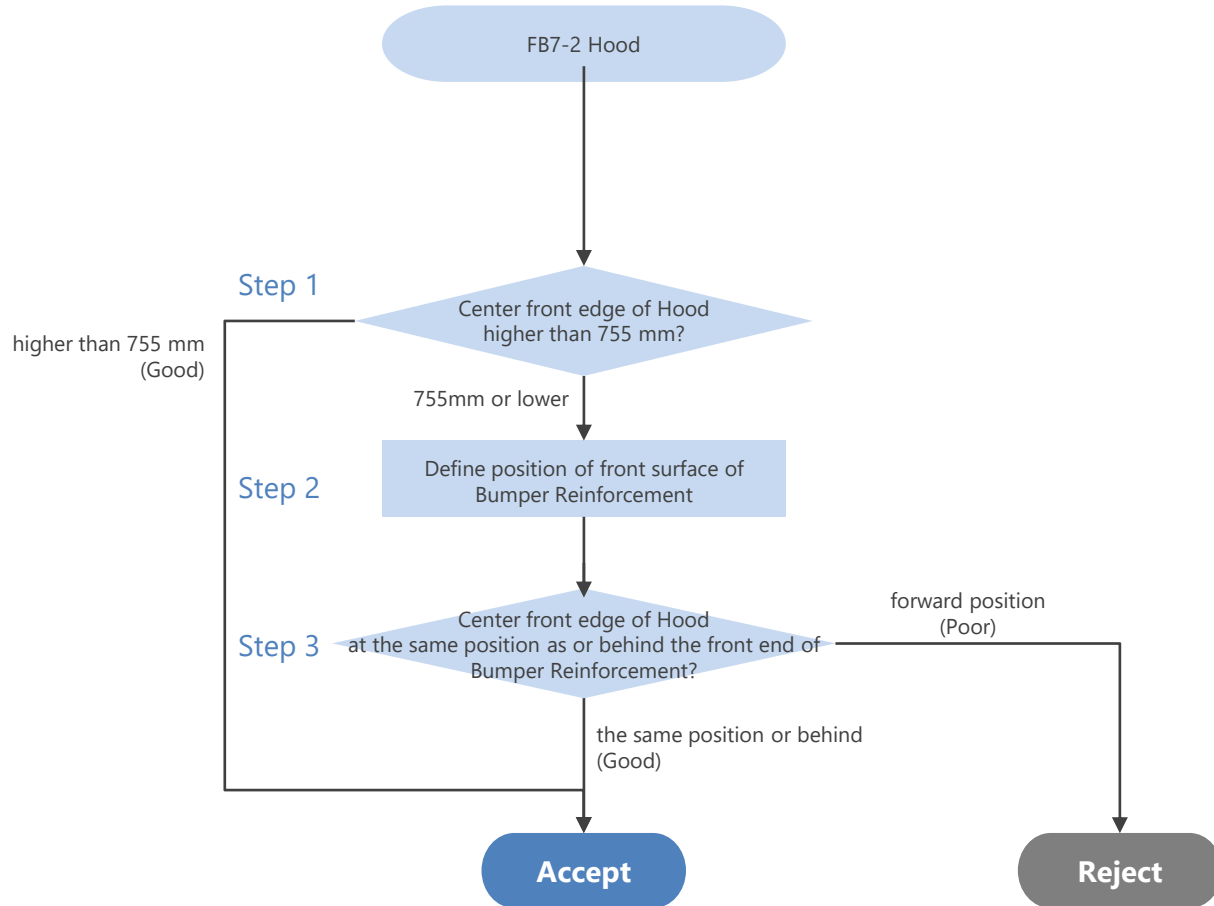
When the center front edge of the Hood is higher than the Backstop height of the Bumper Barrier (755 mm), or the edge is at the same position as or behind the front surface of the Front Bumper Reinforcement, damage to the Hood by contact with the barrier is less likely to occur on the Bumper Test.

Example of which the center front edge of the Hood was behind the front end of Bumper Reinforcement

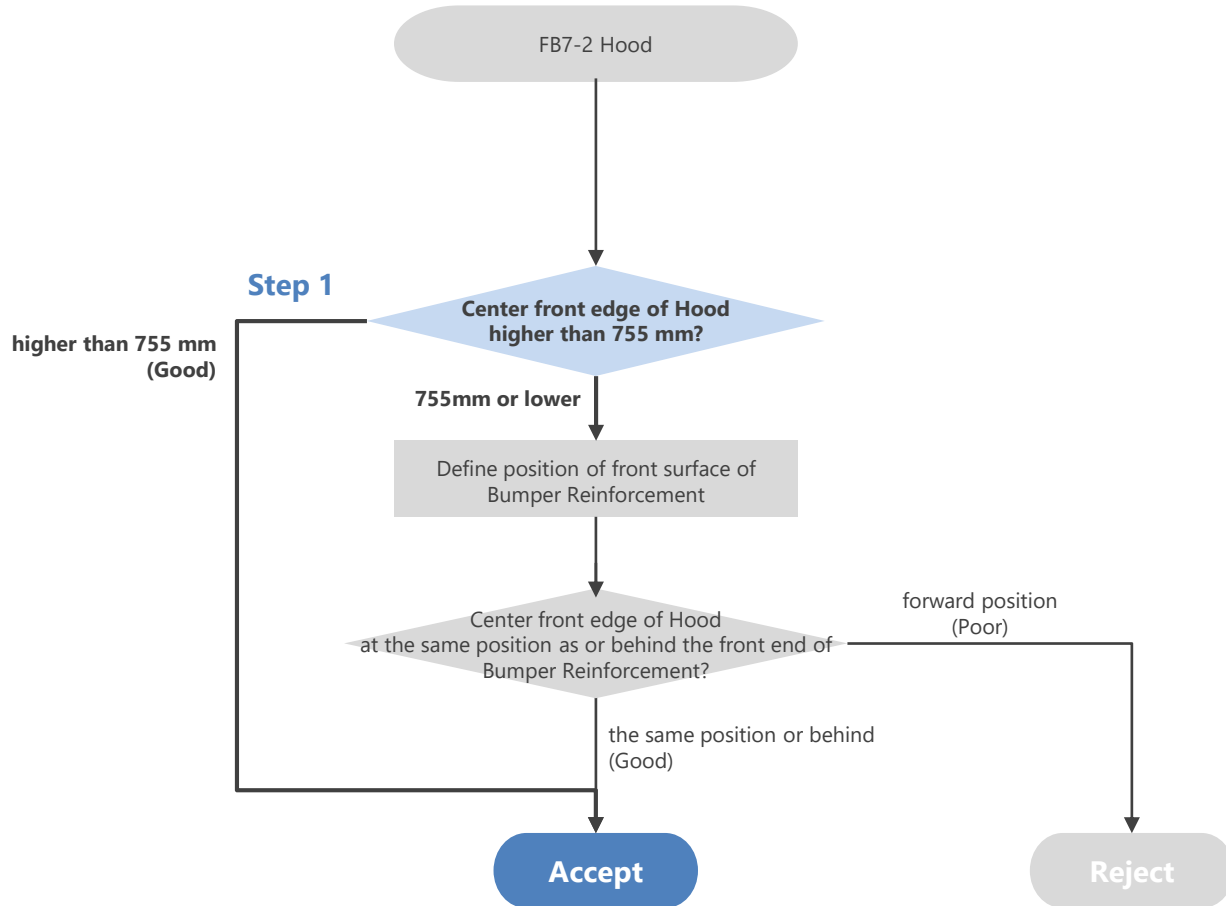
The Hood was not damaged on the Bumper Test.



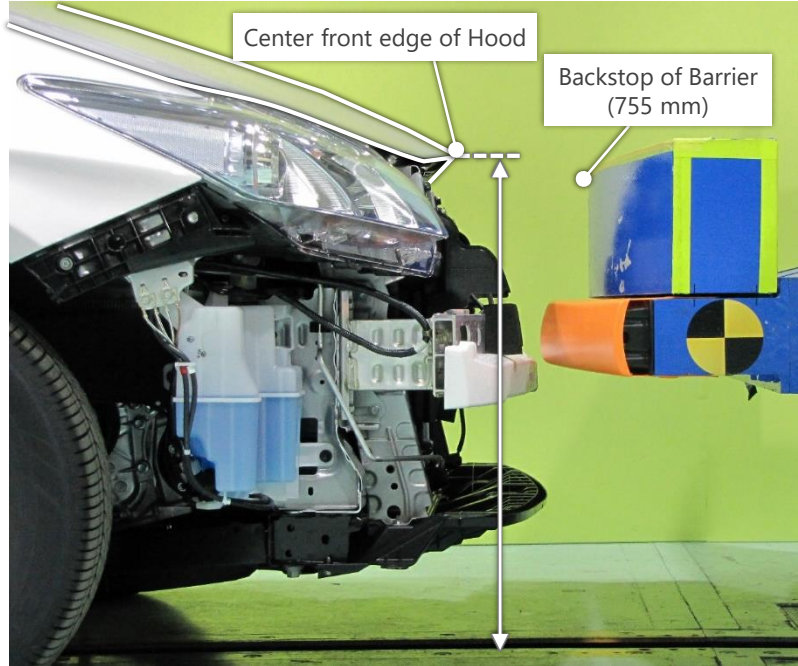
Check Flow



Check Flow – Step 1



Check – Step 1



Check the height of the center front edge of the Hood.

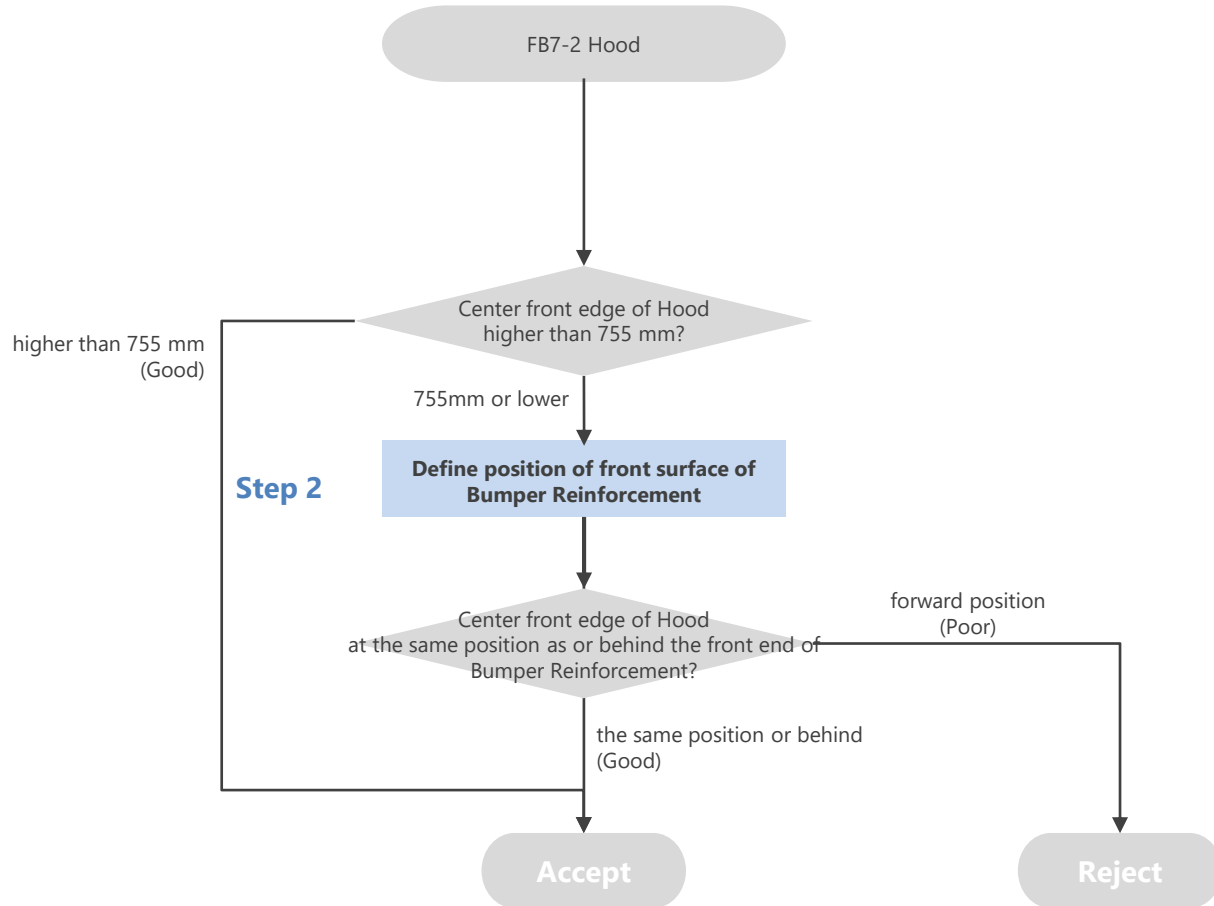
【Determination】

Good

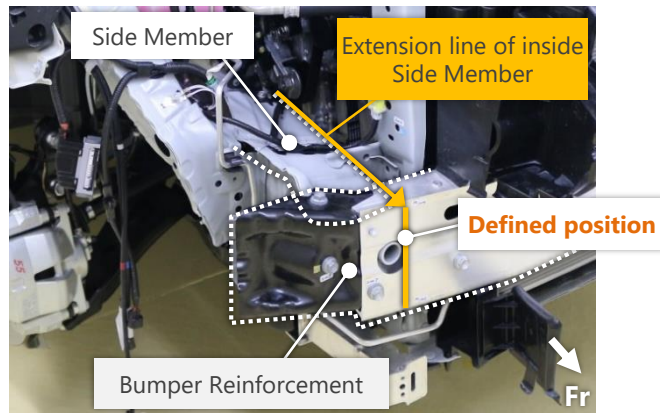
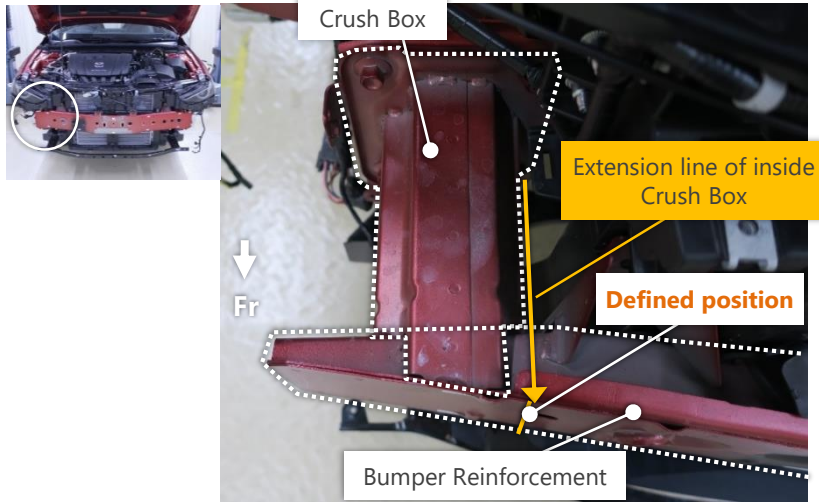
- ☞ When the height is higher than 755mm, damage of the Hood by contact with the Bumper Barrier (Backstop) is less likely to occur and it is determined as Good and

Accept

Check Flow – Step 2

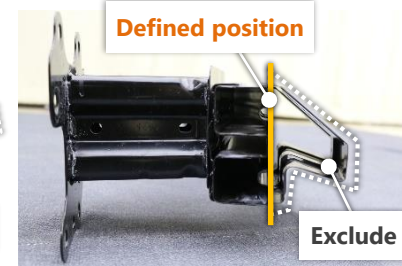
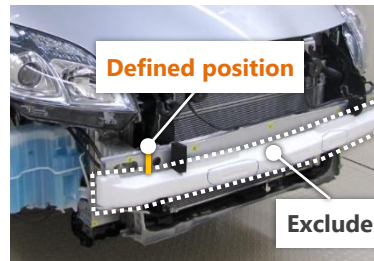


Check – Step 2

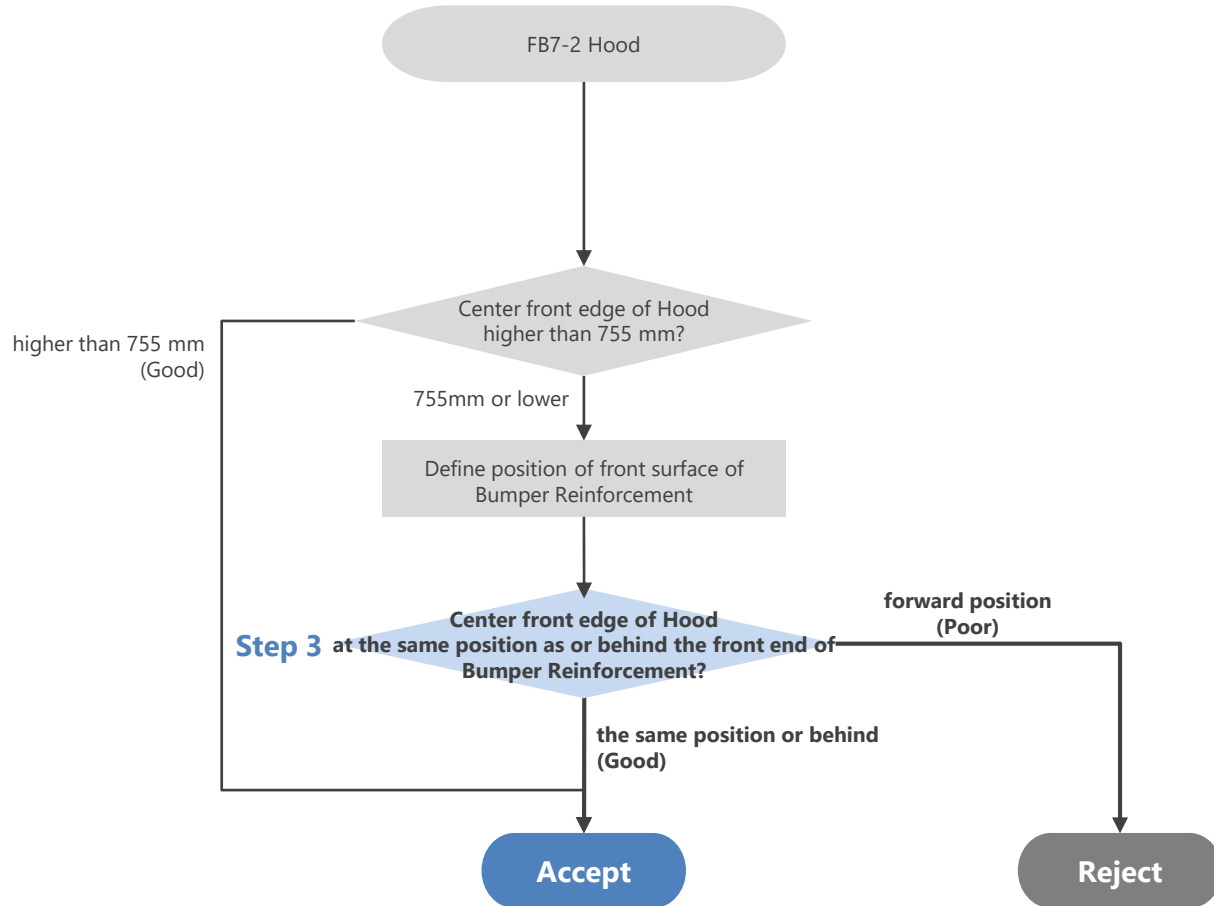


Define the position of the front surface of the Front Bumper Reinforcement.

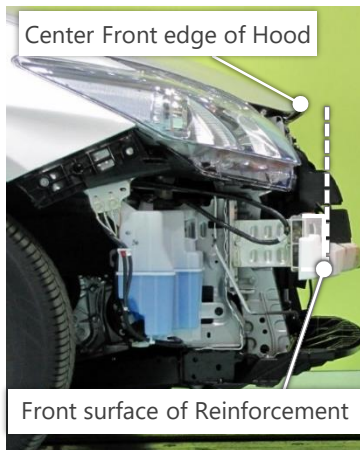
- ☞ The front surface of the Reinforcement on a line extending inside the Crush Box is the position (upper left Fig.)
- ☞ When the vehicle has no Crush Box, the front surface of the Reinforcement on a line extending inside the Side Member is the position (lower left Fig.)
- ☞ Energy absorbing parts which are made of thin steel or forming resin and installed in front of the Reinforcement, are excluded.



Check Flow – Step 3



Check – Step 3



Compare the center front edge of the Hood with the position of the front surface of the Reinforcement defined in step 2, and check if the edge of the Hood is at the same position as or behind the surface of the Reinforcement.

【Determination】

Good

- ☞ When the edge of the Hood is at the same position as or behind the surface of the Reinforcement, it is determined Good and **Accept**

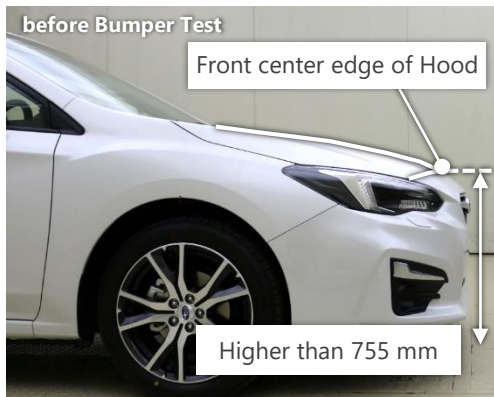


Poor

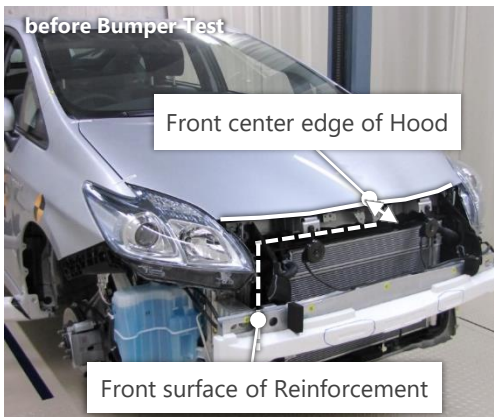
- ☞ When the edge of the Hood is in front of the surface of the Reinforcement, it is determined Poor and **Reject**

Example of Accept / Reject

Accept



☞ The height of the front edge of the Hood was higher than 755mm, so the Hood was not damaged on the Bumper Test.



☞ The front edge of the Hood was behind the front surface of the Reinforcement, so the Hood was not damaged on the Bumper Test.

Example of Accept / Reject

Reject

The front center edge of the Hood was located in front of the front surface of the Reinforcement, so the Hood hit the Bumper Barrier and was damaged on the Bumper Test.

