

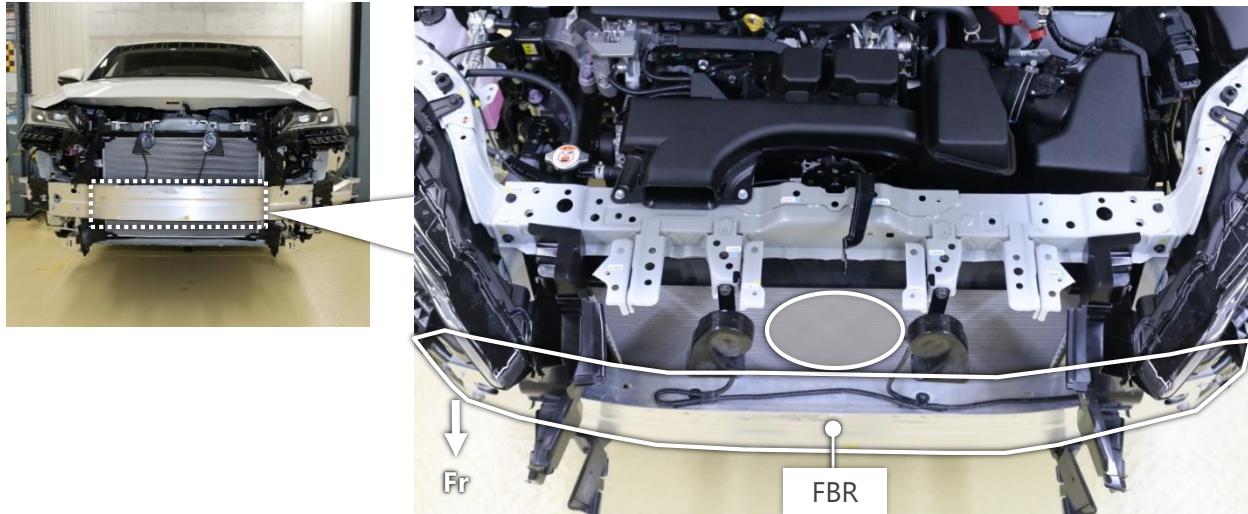
DET Supplemental Document

FB2-3 Front Bumper Reinforcement

Condition

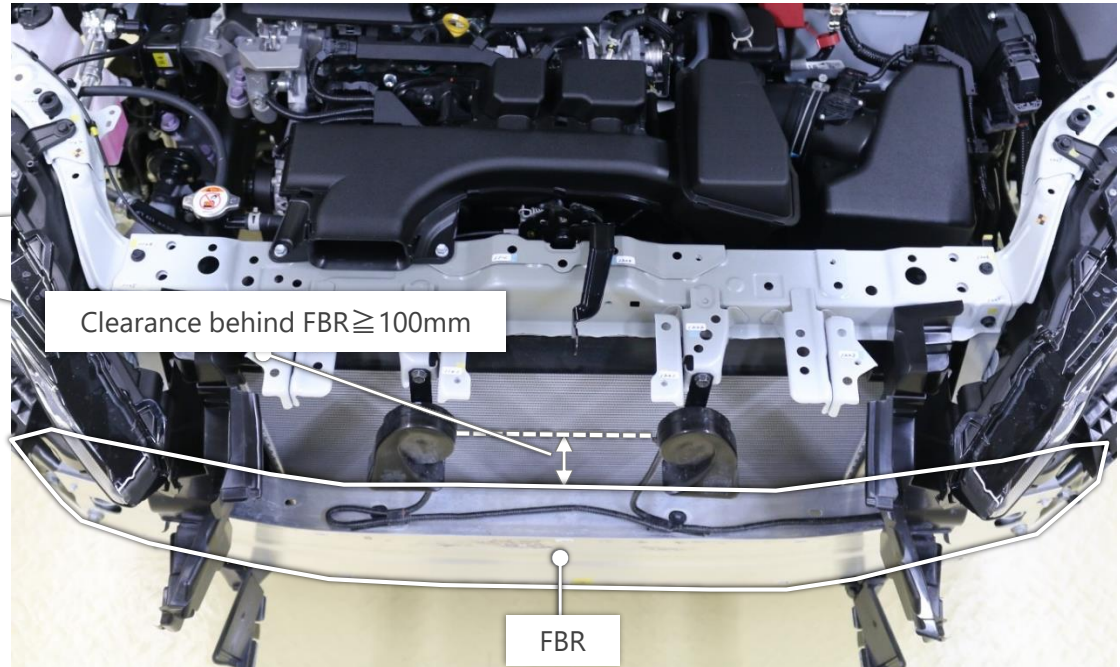
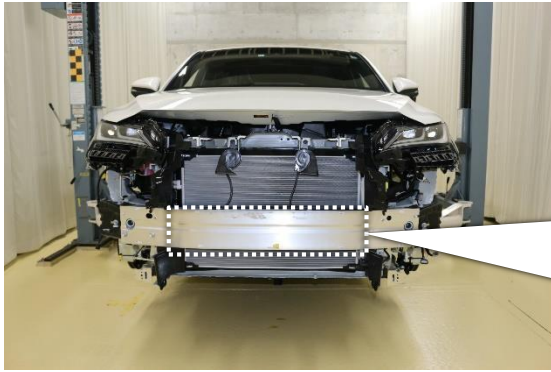
- Vehicle : All vehicles
- Part and Structure : Front Bumper Reinforcement (FBR) and peripheral expensive parts behind it*

* various Condensers, Radiators, Inter-coolers, or Oil-coolers



Criteria

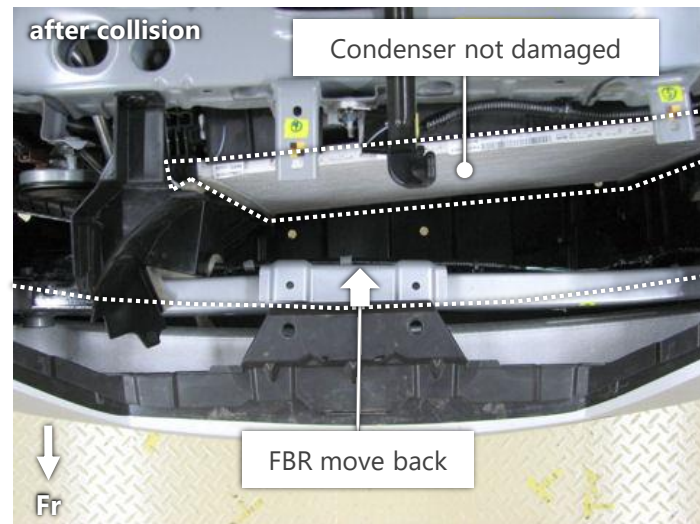
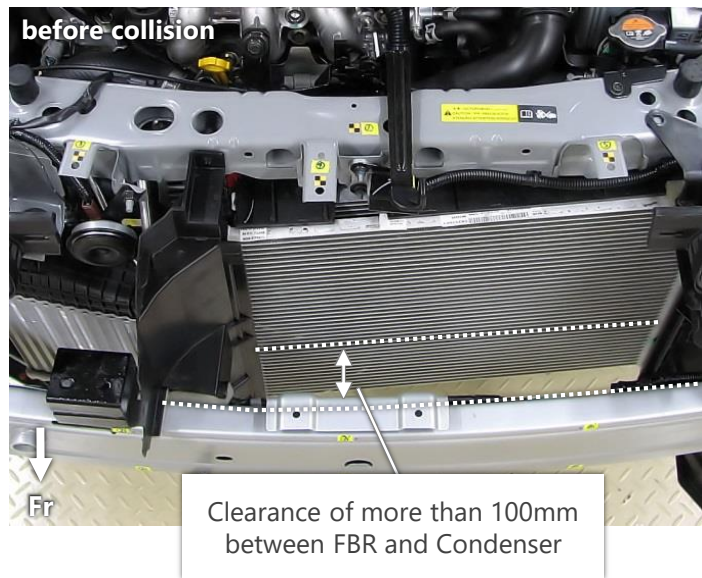
The clearance between the Front Bumper Reinforcement and the expensive parts behind it should be 100mm or more.



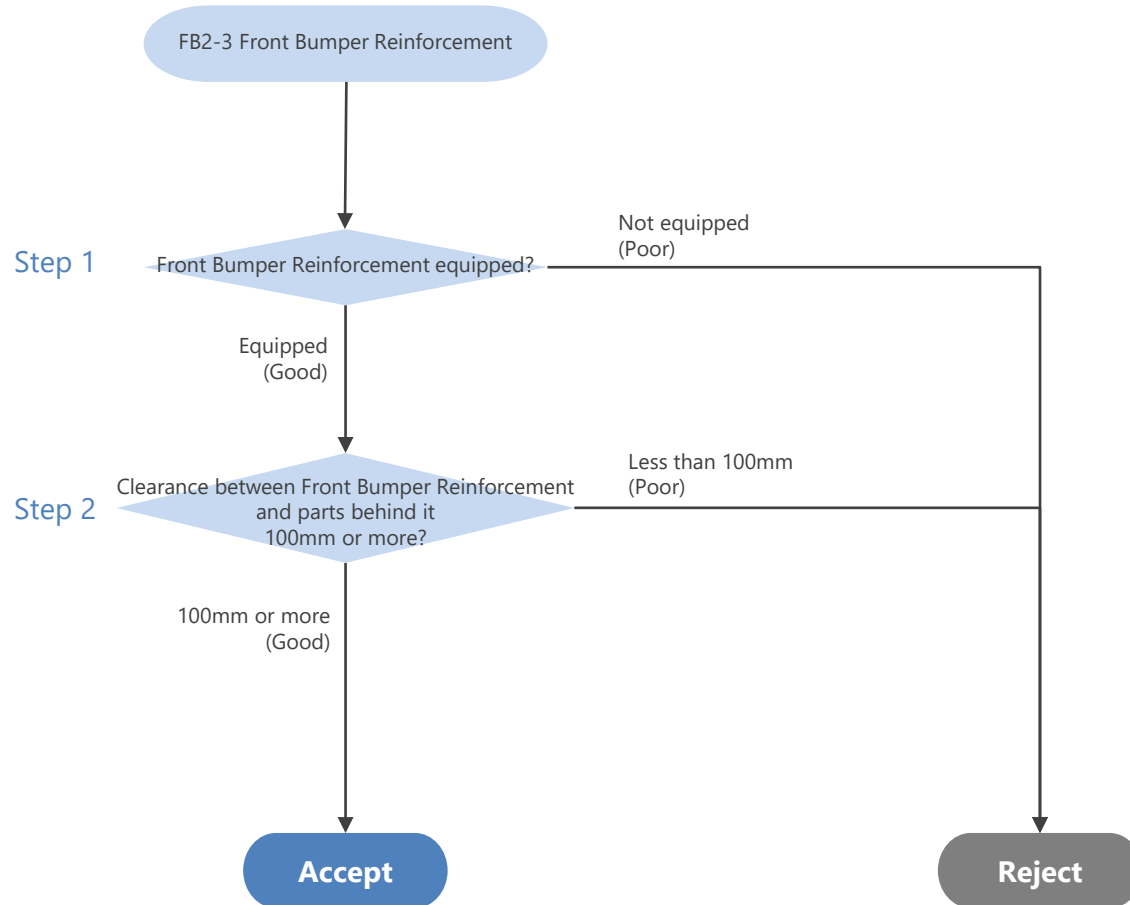
FBR : Front Bumper Reinforcement

Reason

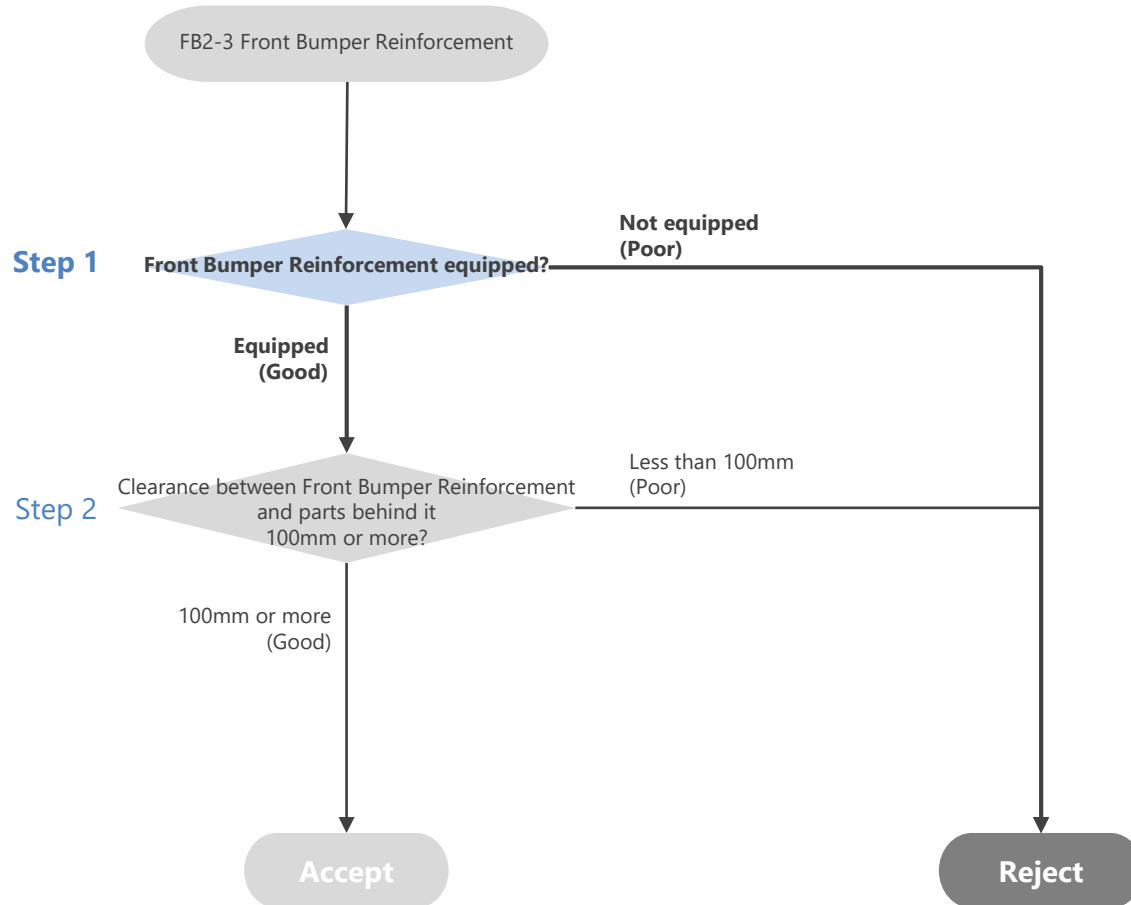
When the clearance between the Front Bumper Reinforcement (FBR) and expensive peripheral parts behind it is 100 mm or more, damage to the parts is less likely to occur even if the FBR moves back due to a collision.



Check Flow



Check Flow – Step 1



Check – Step 1

Check if the FBR is equipped on the vehicle.

【 Determination 】

Good



When the FBR is equipped, it is determined as Good.



FBR equipped

Poor

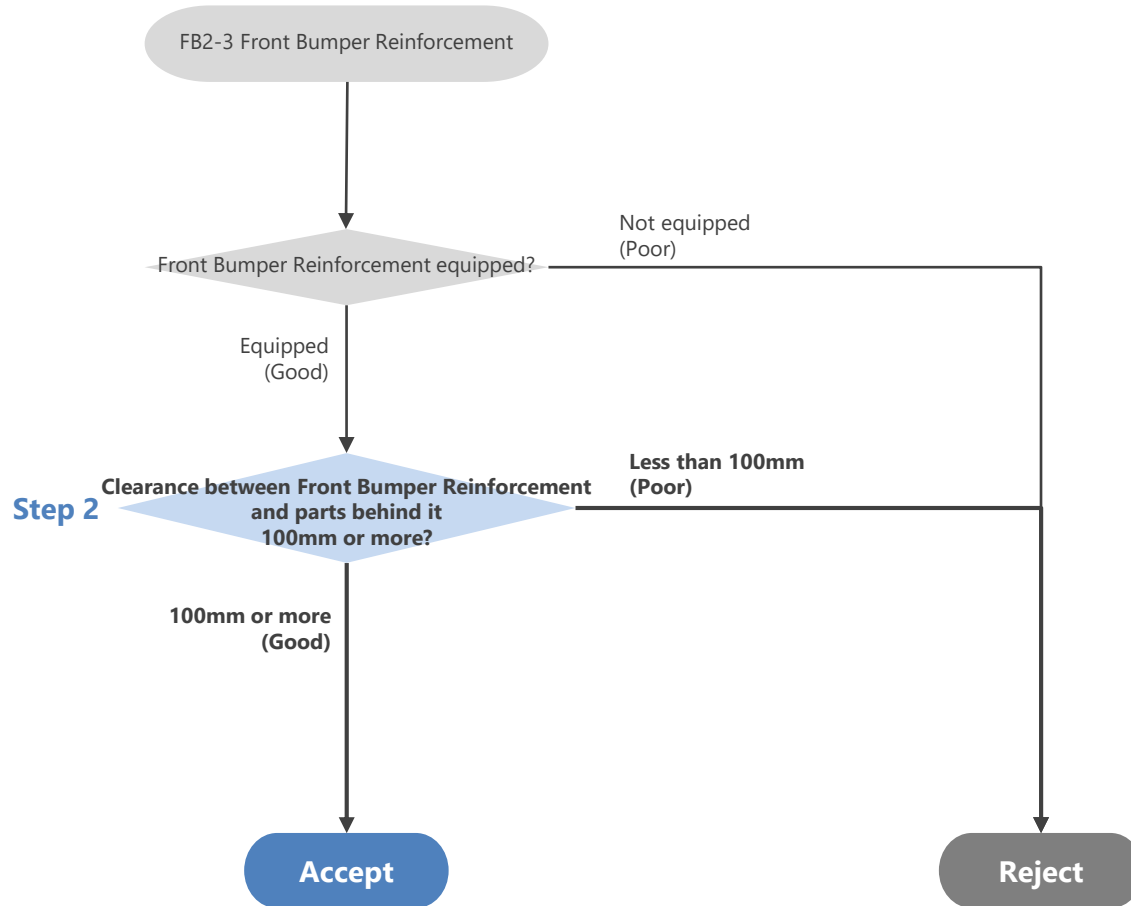


When the FBR is not equipped, it is determined as Poor
and **Reject**

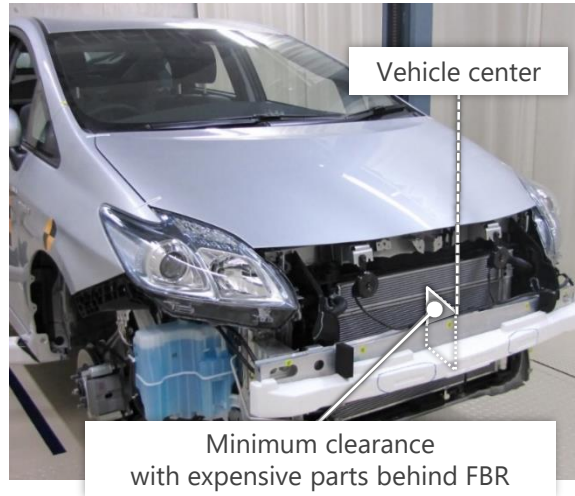


FBR not equipped

Check Flow – Step 2



Check – Step 2-1



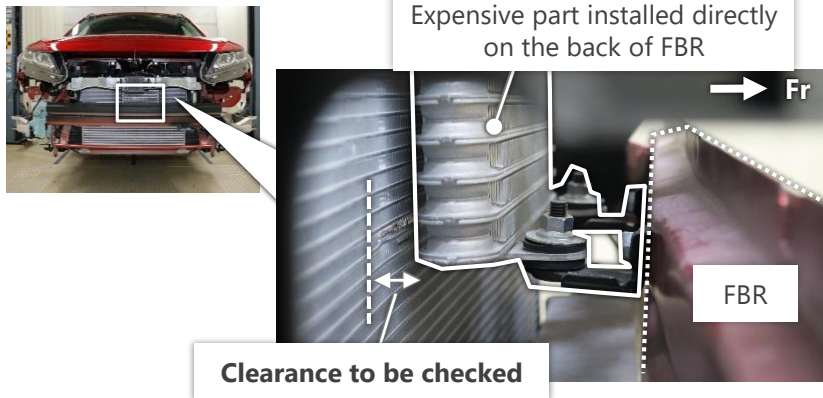
Check the minimum clearance between the FBR and the expensive parts behind it on the vehicle centerline.

* various Condensers, Radiators, Inter-coolers, or Oil-coolers

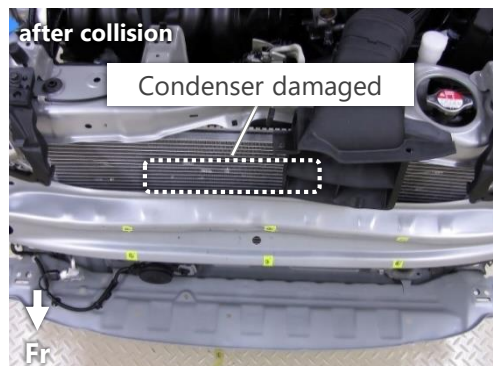
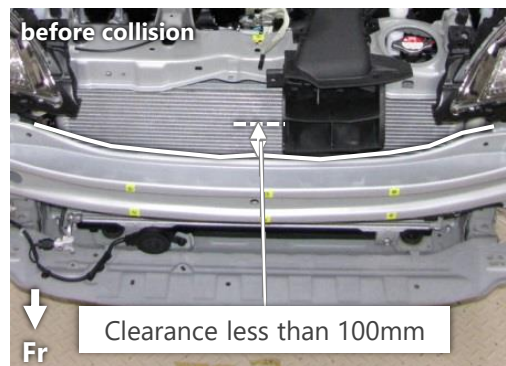
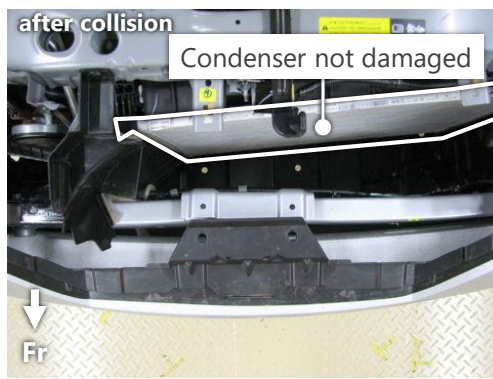
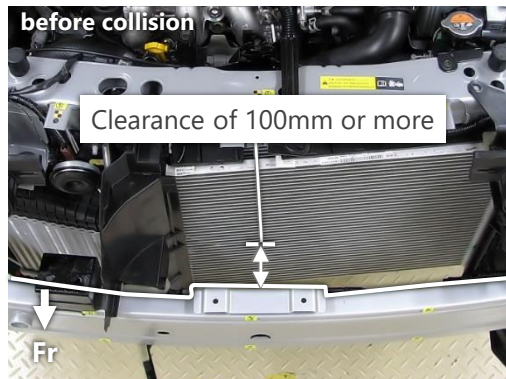
☞ When parts* other than expensive parts are installed in the area of check, the clearance to these parts is excluded.

* e.g. Food Lock Support or Horn
(These parts are checked in FS3-1 and M1-1)

☞ When the expensive parts are installed directly on the back of the FBR, check the clearance behind the expensive parts.



Check – Step 2-2



【Determination】

Good

- ☞ When the clearance is 100mm or more, it helps prevent the FBR from damaging expensive parts behind the FBR even if the FBR penetrates on the bumper test, and is determined as Good and **Accept**

Poor

- ☞ When the clearance is less than 100mm, damage to the expensive parts behind the FBR is likely to occur by the penetration of the FBR. This is determined as Poor and **Reject**