

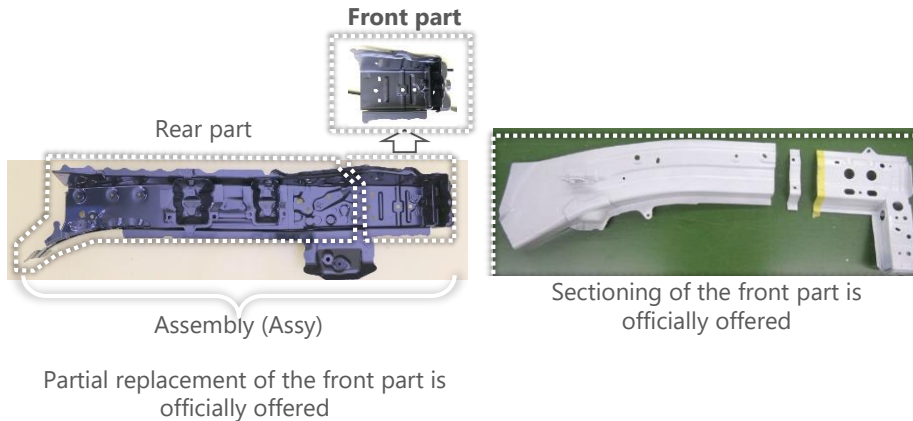
DET Supplemental Document

FS5-4 Front Side Member

Condition

- Vehicle : All vehicles
- Part and Structure : Front Side Member
 1. Availability of partial replacement / sectioning of the front part of Front Side Member
 2. The Engine removal requirement for the repair work

1. Availability of partial replacement / sectioning of the front part of Front Side Member



2. The Engine removal requirement for the repair work



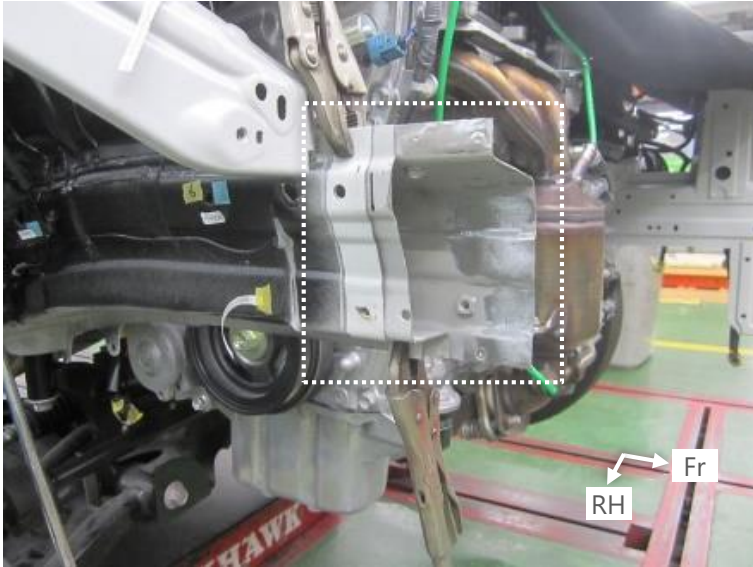
Neither the Engine nor its auxiliary parts removal necessary



Only removal of the auxiliary parts necessary
(removal of the Engine not necessary)

Criteria

Partial replacement or sectioning of the front part of Front Side Member (both its inner and outer) should be possible without removing the Engine, at least by removing auxiliary parts.

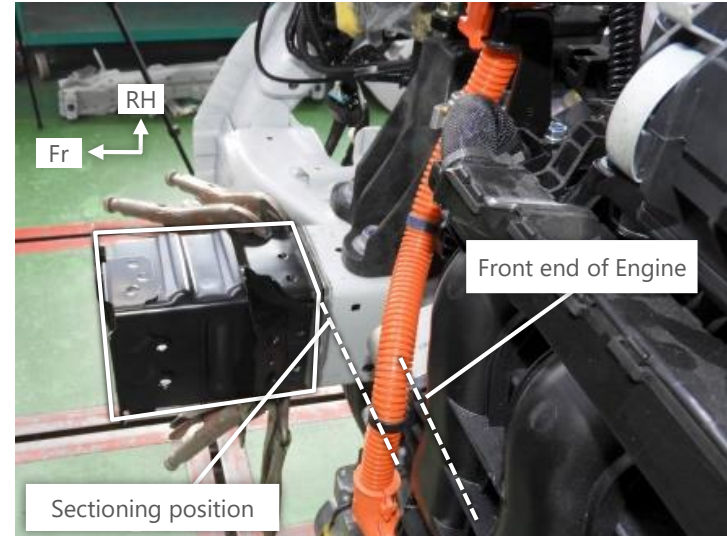
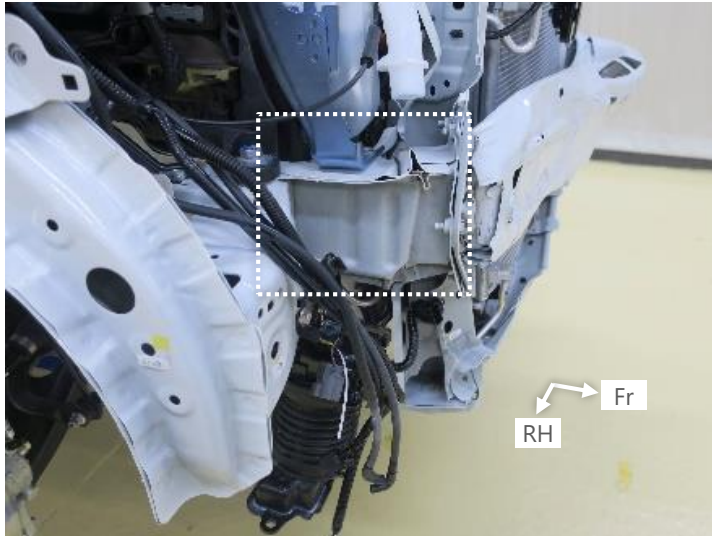


Reason

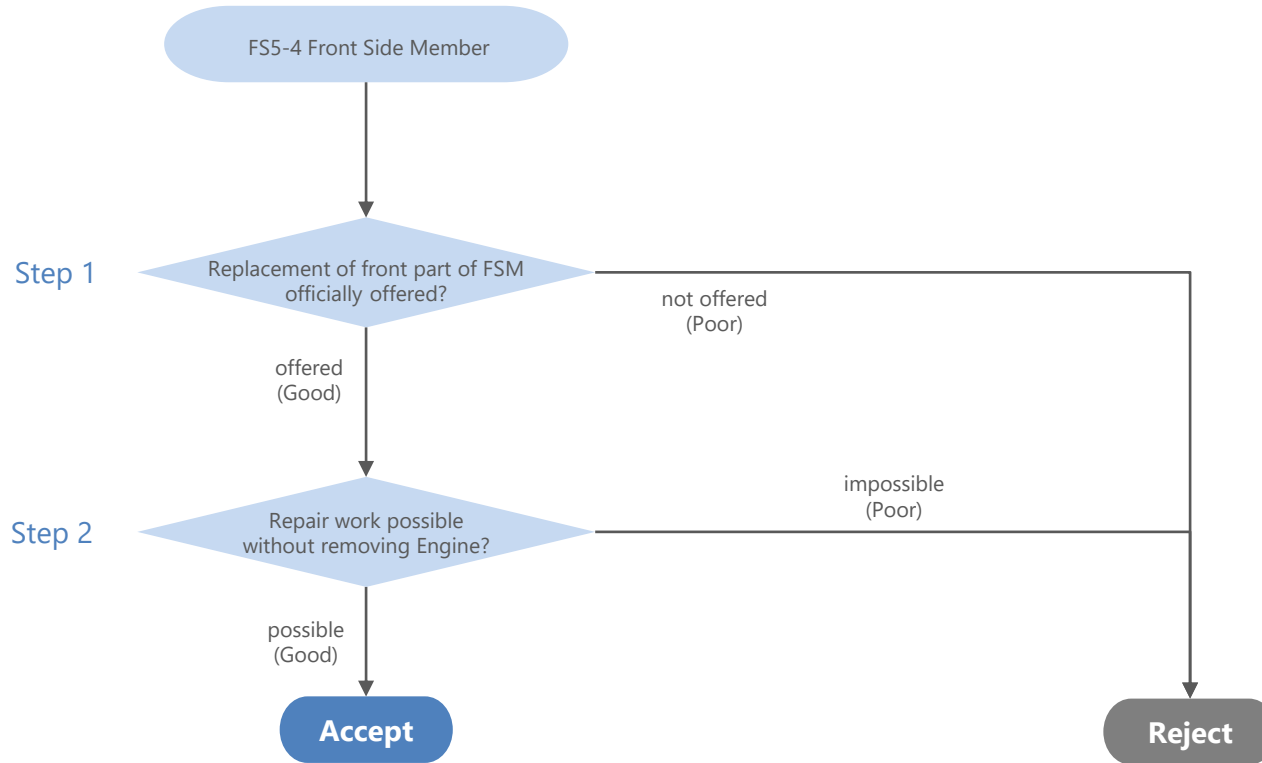
When the seam of partial replacement or the sectioning position of the Front Side Member (FSM) is in front of the front end of the Engine, removal and installation of the Engine for the repair work is not required, which reduces the repair cost.

Good example where the sectioning of FSM is possible without removing the Engine (more examples on p.10)

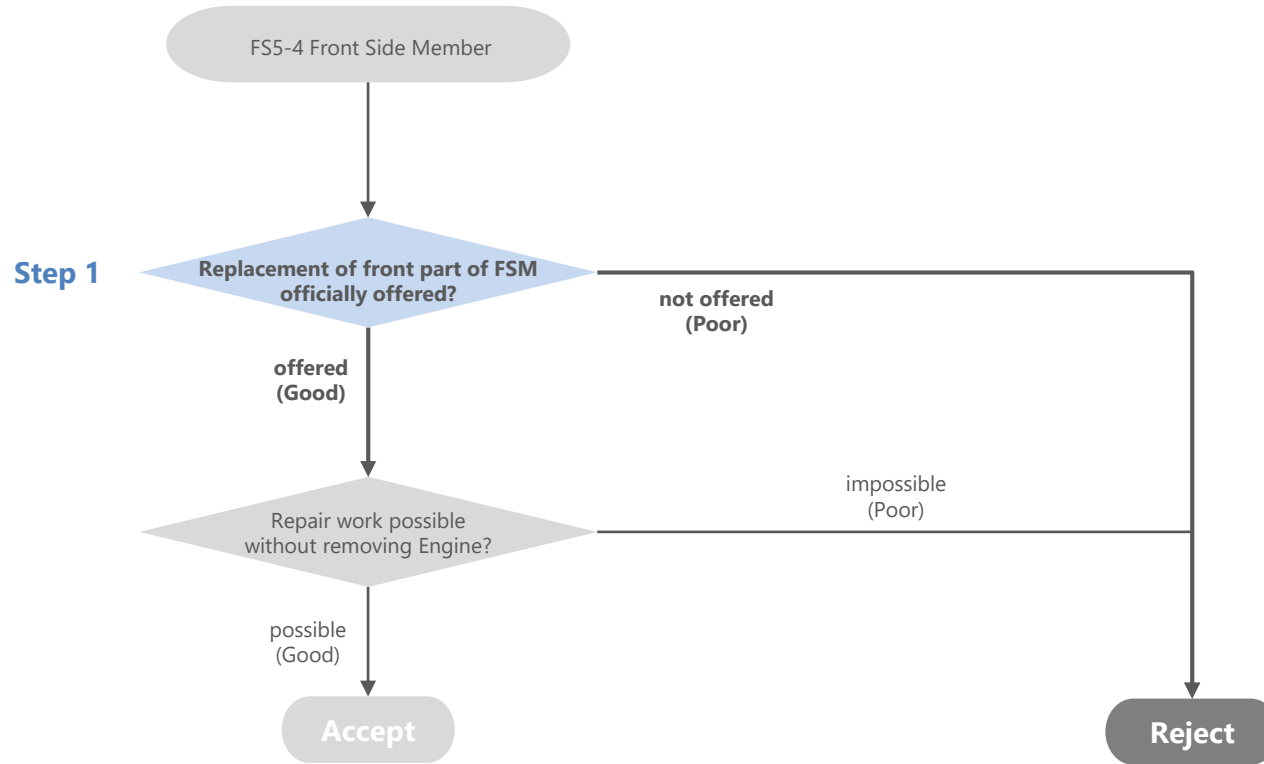
The sectioning position of the FSM was in front of the front end of the Engine. This made the sectioning work possible without removing the Engine. Only auxiliary parts (the Compressor and Alternator here) were removed.



Check Flow



Check Flow – Step 1



Check – Step 1

Check if replacement of the front part of the FSM is officially offered.

【Determination】

Good

- ☞ When replacement of the front part of the FSM is officially offered, it is determined as Good.
- ☞ Both partial replacement and sectioning are determined as Good.

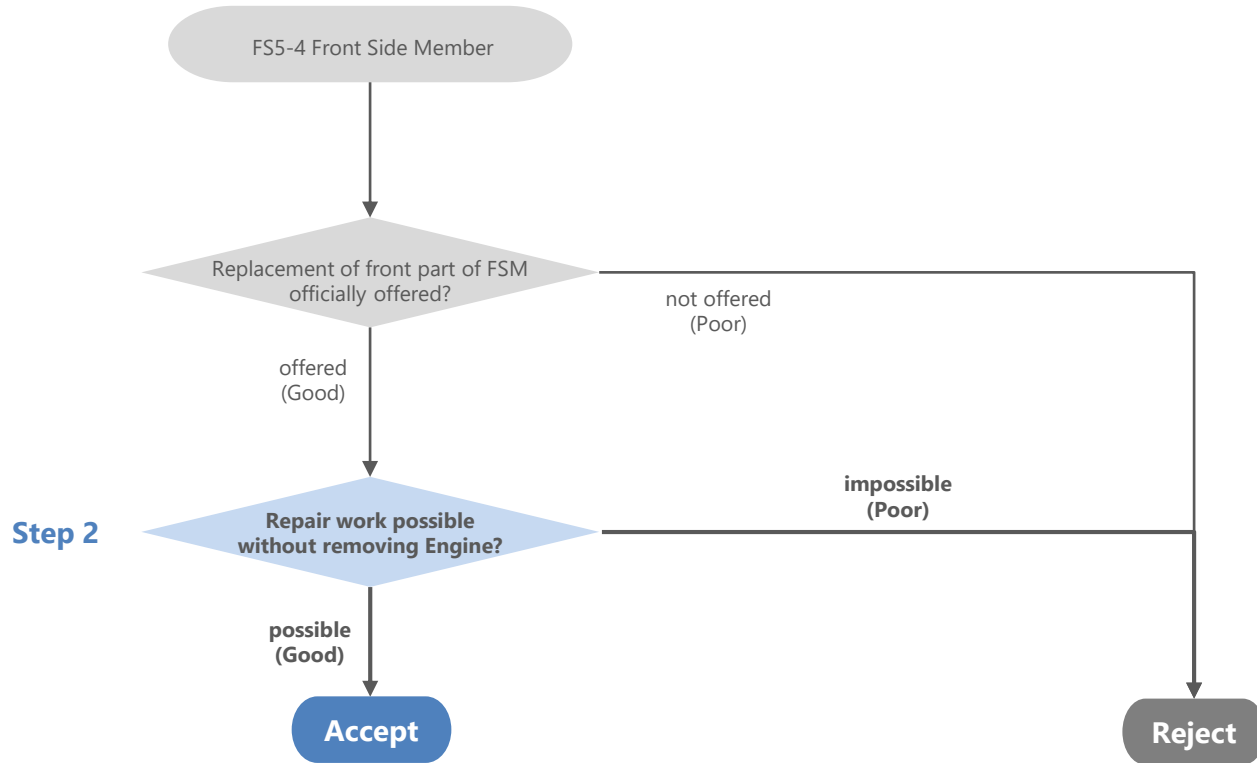
Poor

- ☞ When replacement of the front part of the FSM is not officially offered, it is determined as poor and **Reject**



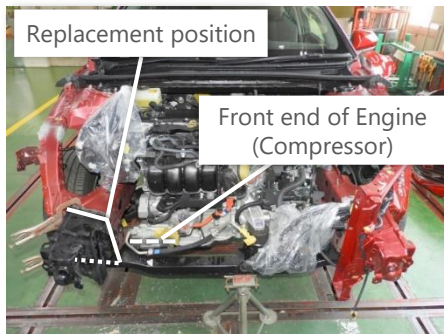
FSM Assy replacement required because partial replacement or sectioning is not offered

Check Flow – Step 2

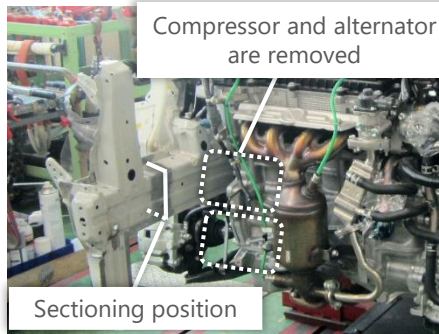


Check – Step 2

Check if the repair work (partial replacement or sectioning) is possible without removing Engine.



Partial replacement is possible without removing the Engine or auxiliary parts



Sectioning is possible by removing only auxiliary parts

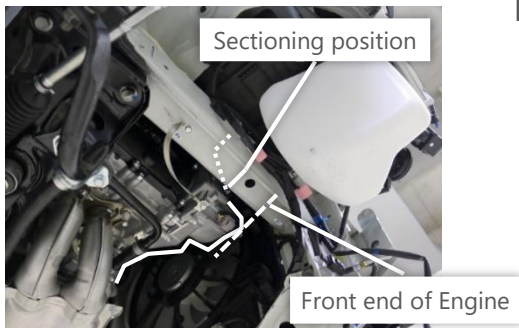
【Determination】

Good

☞ When the position for partial replacement or sectioning of the FSM is in front of the front end of the Engine, it is determined as Good structure that allows the repair work without removing Engine, and **Accept**

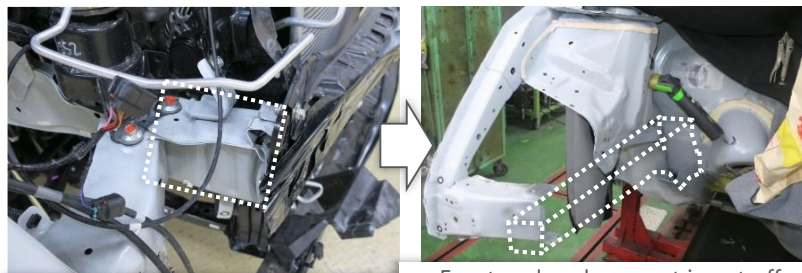
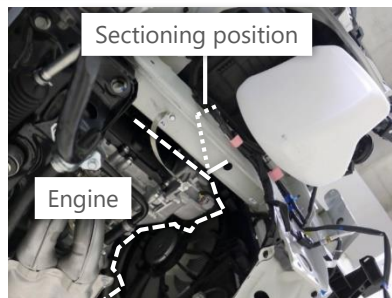
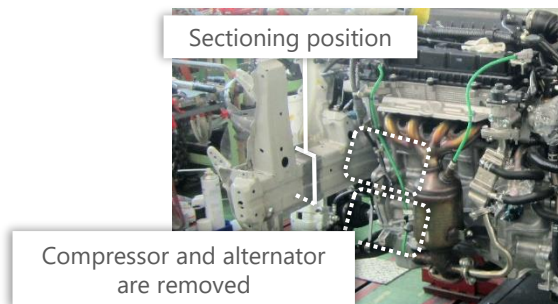
Poor

☞ When the position for partial replacement or sectioning of the FSM is behind the front end of the Engine, which requires removing the Engine for the work, it is determined as Poor and **Reject**



Engine removal is required for sectioning

Example of Accept / Reject



Front end replacement is not offered,
so FSM must be replaced as an assembly

Accept

Replacement of the front part of the FSM is officially offered and the work is possible by only auxiliary parts, but without removing the Engine.

Reject

Replacement of the front part of the FSM is officially offered, but the work requires removing the Engine.

Reject

Replacement of the front part of the FSM is not officially offered. Therefore, the FSM must be replaced as an assembly. This work requires removing the Engine.