

VEHICLE INVOLVED IN AN IMPACT: MECHANICAL IMPACT FAULT FINDING



Note, one or more warnings are present in this procedure



Equipment required

Diagnostic tool



WARNING

Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions Vehicle: Precautions for the repair.



WARNING

This procedure aids the assessment of a vehicle involved in an impact, in particular to specify the parts always to be replaced. Under no circumstances does it replace the assessment carried out on the vehicle.



WARNING

In this document, the term "collision" designates a mechanical impact which has triggered at least one pyrotechnic component or at least caused the airbag computer to lock.

MECHANICAL IMPACT FAULT FINDING

1. SEAT BELT FAULT FINDING AFTER A COLLISION

■ Replace all seat belts and buckles which were fastened at the time of the impact as well as their mountings.

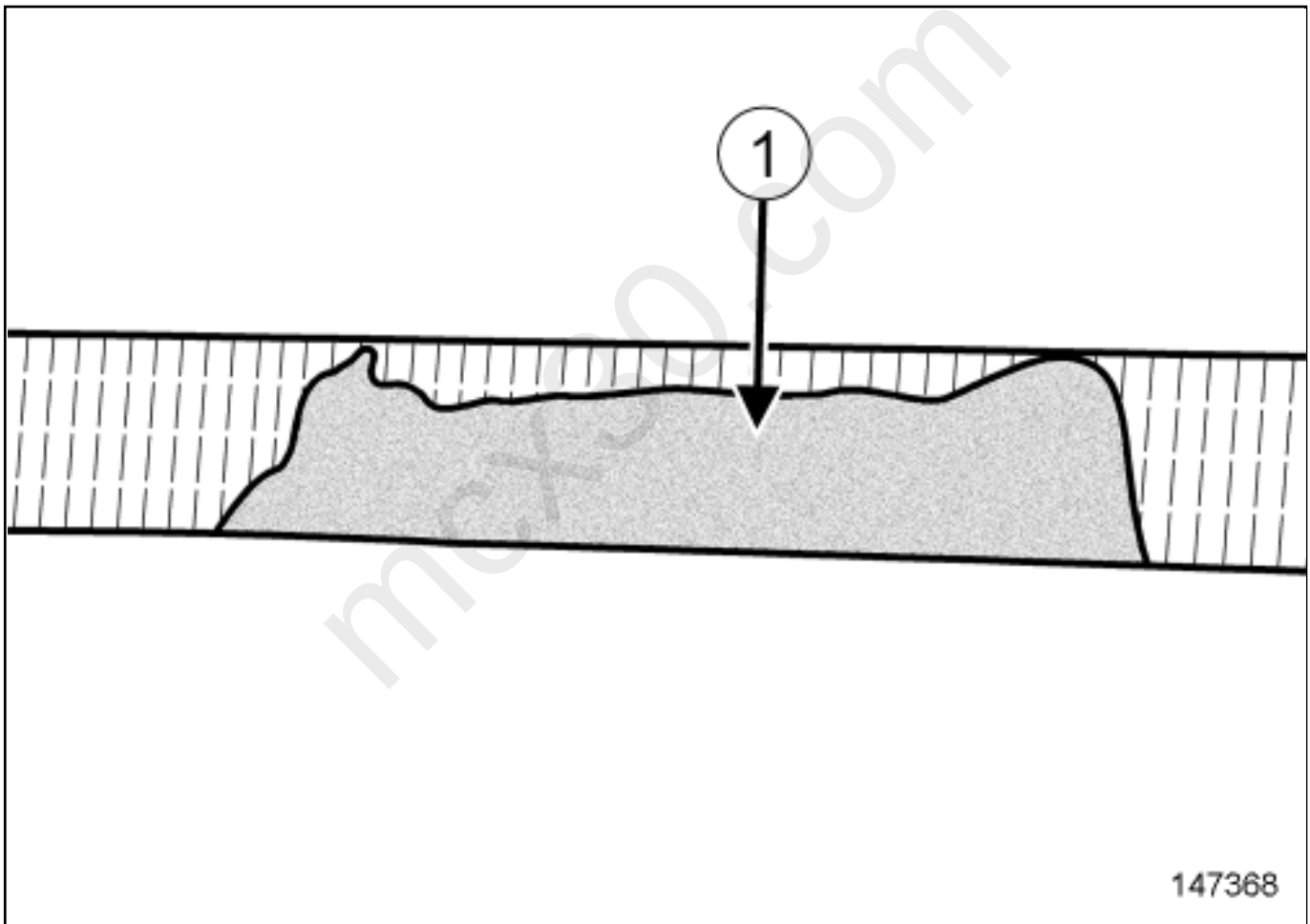
Note:

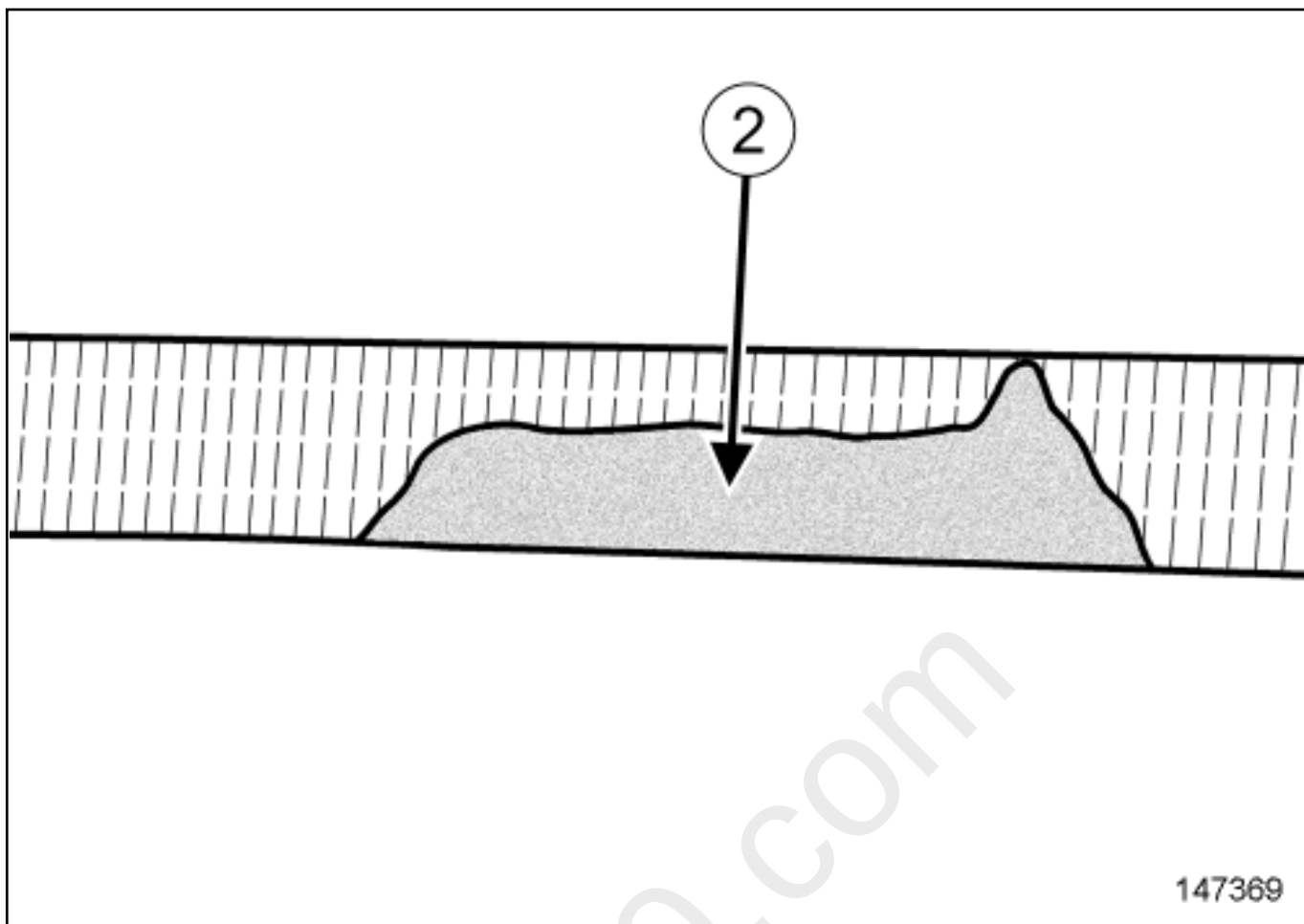


If a baby seat was secured by a seat belt, always replace the seat belt and the associated buckle, as well as their mountings.

- On 3-door vehicles, if the seat belt rail on the sill panel lining is deformed, it is essential to replace the seat belt, the seat belt rail, the buckle associated with this seat belt and their mountings.
- If there is any doubt over whether a seat belt was fastened during an impact, always replace this seat belt, the buckle and the mounting.

SIGNS OF BURNING ON THE SEAT BELT STRAP





- Unwind the seat belt strap completely.
- Check whether the seat belt strap presents signs of burning(1) or (2) . If signs of burning are noted, replace the seat belt, the stalk and their mountings.

2. FAULT FINDING ON PYROTECHNIC SAFETY SYSTEMS AFTER A COLLISION



Note:

It is essential to connect the diagnostic tool to check the locked components

- Switch on the ignition.
- Connect Diagnostic tool.
- Select "Airbag computer".

Read the impact context (this command enables the list of trigger lines activated and the system status at the moment of impact to be accessed in the computer to be replaced).

- Replace the airbag computer and all parts locked by the computer.

Note:



If the passenger's airbag was inhibited at the moment of the collision and was therefore not triggered, it is obligatory to replace it (doubt over the condition of the igniter).

Note:



In order to create a reliable database, always send the locked airbag computer back to the technical department.

3. FAULT FINDING ON OTHER VEHICLE COMPONENTS AFTER A FRONTAL IMPACT COLLISION

1- STEERING WHEEL

- Remove the steering wheel.
- Fit the circular part of the steering wheel on a flat surface.
- Check that the steering wheel rests on its edge all the way around.
- If the circular part of the steering wheel rests completely on the flat surface:
 - the steering wheel is correct.
- If the circular part of the steering wheel does not rest completely on the flat surface:
 - replace the steering wheel,
 - replace the steering column.

2- STEERING COLUMN

- If the steering rack is damaged:
 - replace the steering column or the intermediate shaft if it is sold separately,
 - replace the steering rack

3- PEDAL ASSEMBLY

- After the driver's frontal airbag has been triggered, always replace the pedal assembly.

4- DASHBOARD CROSS MEMBER

- When refitting the dashboard cross member on the vehicle, if the cross member cannot be refitted correctly, replace the dashboard cross member.

5- DASHBOARD

- After the frontal airbags have been triggered, check that the passenger's airbag has not damaged the dashboard (broken lugs, material torn around the airbag housing, etc.).
- Dashboard in good condition:
 - do not replace the dashboard.
- Damaged dashboard:
 - replace the dashboard.

6- FRONT SEAT



Note:

An unoccupied seat means a seat without a passenger on the seat and an unfastened seat belt.



Note:

The seat frame is involved in passive safety. During an impact, if the seat is occupied, the seat is considered to be deformed to ensure the occupier's safety.

- After the frontal airbags have been triggered:

- Front seat occupied:
 - replace the complete frame of the seat.

- Front seat unoccupied:
 - retain the seat frame.

7- REAR SEAT OR REAR BENCH SEAT

- After the frontal airbags have been triggered:

- Rear seat occupied:
 - replace the complete frame of the seat.
- Rear bench seat occupied:
 - replace the complete frame of the bench seat.
- Rear seat unoccupied:
 - retain the seat frame.
- Rear bench seat unoccupied:
 - retain the frame of the bench seat.

4. FAULT FINDING ON VEHICLE COMPONENTS AFTER A SIDE IMPACT COLLISION

1- IMPACT SIDE



Note:

An unoccupied seat means a seat without a passenger on the seat and an unfastened seat belt.



Note:

If there is any doubt over whether the seat was occupied, you must consider the seat occupied.

- Replace the side impact sensor.
- Seat occupied or unoccupied:
 - replace the complete frame of the seat.
- Bench seat occupied or unoccupied:

- replace the complete frame of the bench seat.

2- OPPOSITE SIDE TO IMPACT

- Seat occupied:
 - replace the complete frame of the seat.
- Bench seat occupied:
 - replace the complete frame of the bench seat.
- Seat unoccupied:
 - retain the seat frame.
- Bench seat unoccupied:
 - retain the frame of the bench seat.



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XSL version : 3.02 du 22/07/11