AIRBAG AND PRETENSIONERS: PRECAUTIONS FOR THE REPAIR

Note, one or more warnings are present in this procedure

Equipment required
Diagnostic tool

WARNING

All operations on airbag and pretensioner systems must be carried out by qualified trained personnel.

The airbags have a pyrotechnic gas generator, with an ignition module and bag which must not be separated.

The pretensioners have a pyrotechnic gas generator and an igniter which must, under no circumstances, be separated.

WARNING

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

WARNING

To avoid any splashes, do not place anything in the airbag deployment area.

WARNING

To prevent the any component from being thrown upwards, store the airbag with the inflatable cushion facing upwards.

Protect the side impact sensors (with cardboard and adhesive, for example) during an operation near these sensors (risk of damage caused by a falling tool, etc.).

Always replace any pyrotechnic system that has fallen on the ground or shows signs of impact.

Always replace any restraint system that shows deterioration (tears or damage to the strap, damaged appearance parts, cover unclipped, damaged clips or indexing brackets, etc.).

1. PROCEDURE FOR DEACTIVATING AND ACTIVATING THE SAFETY SYSTEMS

WARNING

DANGER : Risk of serious injuries due to the short-circuiting or the untimely triggering of an electrical system (pyrotechnical parts, windscreen wiper motor, electric fan, etc.) following possible loopback of the 12-volt supply circuit by the voltagetransformer.

Please adhere to the instructions regarding cut-off of the 12-volt supply circuit.

If the procedure fails, do not continue with your task and ask an employee who is qualified and authorized to work on a high-voltage onboard network to perform a diagnostic Vehicle: Precautions for the repair .

Bodywork and pyrotechnic component	Deactivation	Activation

❑ Disconnection, wiring operation and removal: ■ dashboard ■ seat ■ steering column switch assembly ■ driver's front airbag ■ passenger's front airbag ■ front chest-level side airbag ■ rear chest-level side airbag ■ curtain side airbag ■ anti-submarining airbag ■ front seat lap belt pretensioner ■ front side seat belt ■ rear side seat belt ■ pyrotechnic battery terminal ■ automatic roll-hoops ❑ Bodywork operation ■ dent removal ■ jacking ■ replacing non-removable components (weld) ❑ Upholstery operation ■ trim removal ❑ Operation on a door (if the door is equipped with a side impact sensor): ■ adjustment with a striking tool ■ removal of an electric window mechanism ■ removal of a lock ■ removal of an exterior handle ■ removal of a window	❑ Lock the airbag computer applying the before repair procedure using the Diagnostic tool **Diagnostic tool : Use** : -Computer concerned by the before repair procedure: ■"Airbag computer" Disconnect the battery **Battery: Removal - Refitting** or disconnect the 12V supply circuit **Vehicle: Lockout - Removal of lockout** on an electric vehicle	Connect the battery **Battery: Removal - Refitting** or connect the 12V supply circuit **Vehicle: Lockout - Removal of lockout** on an electric vehicle ❑ Unlock the airbag computer applying the after repair procedure using the Diagnostic tool **Diagnostic tool : Use** : -Computer concerned by the after repair procedure: ■"Airbag computer"

Impact detection component	Deactivation	Activation
❑ Disconnection, wiring operation and removal: ■ side impact sensors ■ airbag computer Removal of a door (if the door is equipped with a side impact sensor) Disconnection of passenger compartment/door connection (if the door is equipped with a side impact sensor)	❑ Lock the airbag computer applying the before repair procedure using the Diagnostic tool **Diagnostic tool : Use** : -Computer concerned by the before repair procedure: ■"Airbag computer" Disconnect the battery **Battery: Removal - Refitting** or disconnect the 12V supply circuit **Vehicle: Lockout - Removal of lockout** on an electric vehicle	Connect the battery **Battery: Removal - Refitting** or connect the 12V supply circuit **Vehicle: Lockout - Removal of lockout** on an electric vehicle ❑ Unlock the airbag computer applying the after repair procedure using the Diagnostic tool **Diagnostic tool : Use** : -Computer concerned by the after repair procedure: ■"Airbag computer"

Occupant management device	Deactivation	Activation
❑ Disconnection, wiring operation and removal: ■ inhibitor switch ■ seat belt buckling detection connector (if a non-pyrotechnic buckle)	Switch off the ignition	Switch on the ignition

2. TRIGGERING OF THE SAFETY SYSTEMS

❑ Check the safety systems using the Diagnostic tool:
- ■ after an accident,
- ■ after theft or attempted theft of the vehicle,
- ■ before selling a used vehicle.

After detection of an impact, the airbag computer is definitively locked and the "airbag fault" warning light illuminates on the instrument panel. The airbag computer and the side impact sensors must always be replaced.

WARNING

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see 88C, Airbags and pretensioners, Airbags and pretensioners: Recycling - Destruction) .

3. DURABILITY OF THE PYROTECHNIC COMPONENTS

The precautions which recommended that pyrotechnic components (airbags and pretensioners) were replaced 10 years after the registration of the vehicle have now been lifted.

Pyrotechnic components (airbags and pretensioners) do not therefore require any maintenance.