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501-20B Supplemental Restraint System  
General Procedures

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# Inspection and Repair after a Supplemental Restraint System (SRS) Deployment

## Inspection

 **WARNING:** If a vehicle has been in a crash, inspect the Restraints Control Module (RCM) and impact sensor mounting areas for any damage or deformation. Also inspect the related components for any cracks, damage, or loose fasteners. If the mounting area is damaged, restore the area(s) to the original production configuration. After repairing the mounting area(s), the original RCM or impact sensor in that location must be replaced with a new component, regardless of whether the airbags have deployed. Failure to follow these instructions may result in serious personal injury or death in a crash.

 **WARNING:** If a vehicle has been in a crash with side air bag deployment, replace the seat backrest cover, seat backrest foam, side airbag and inspect the side airbag mounting areas for deformation. If damaged, install a new seat backrest frame. Failure to follow these instructions may result in serious personal injury or death in a crash.

**NOTE:** Deployable devices such as airbags, pretensioners and inflatable belt inflators, may deploy alone or in various combinations depending on the impact event.

**NOTE:** Always refer to the appropriate workshop manual procedures prior to carrying out vehicle repairs affecting the SRS (supplemental restraint system) and seatbelt system.

**NOTE:** The SRS (supplemental restraint system) must be fully operational and free of faults before releasing the vehicle to the customer.

1. **NOTE:** Refer to the correct removal and installation procedure for all SRS (supplemental restraint system) components being installed.

When any deployable device or combination of devices have deployed and/or the RCM (restraints control module) has DTC (diagnostic trouble code) B1193:00 (event threshold exceeded) in memory, the repair of the vehicle SRS (supplemental restraint system) is to include the removal of

all deployed devices and the installation of new deployable devices, the removal of all impact sensors and installation of new impact sensors and the removal and installation of a new RCM (restraints control module). Diagnostic Trouble Codes (DTCs) must be cleared from all required modules after repairs are carried out.

2. **NOTE:** *After installation of new OCS (occupant classification system) components, use a diagnostic scan tool to carry out the OCS (occupant classification system) Reset procedure as instructed in the workshop manual.*

When a vehicle has been involved in a collision and the OCSM (occupant classification system module) has DTC (diagnostic trouble code) B1193:00 stored in memory, inspect the OCS (occupant classification system) for damage and repair as necessary. If installation of an OCS (occupant classification system) component is required, an OCS (occupant classification system) service kit must be installed.

3. When any damage to the impact sensor mounting points or mounting hardware has occurred, repair or install new mounting points and mounting hardware as needed.
4. When the driver airbag has deployed, install a new steering wheel and clockspring.
5. **NOTICE: Precise tolerances are required when manufacturing a steering column. Never install a repaired, rebuilt or remanufactured steering column, always install a new steering column. Failure to follow this direction can result in steering column failure.**

Install a new adaptive energy absorption steering column if:

- Steering wheel is bent, loose or damaged
  - Steering column functionality is binding, bent or sticking
  - Steering column bearings brinelling or damaged
  - Steering shaft bent, loose or damaged
  - Any abnormal steering column movement
6. New driver and/or front passenger seatbelt systems (including seatbelt retractors, seatbelt buckles and height adjusters) must be installed if the vehicle is involved in a collision that results in deployment of the driver and/or front passenger seatbelt pretensioners.
7. New second row seatbelt systems (including seatbelt retractors, seatbelt buckles and inflators) must be installed if the vehicle is involved in a collision that results in deployment of the rear seatbelt pretensioners (if equipped) or inflatable seatbelt system (if equipped).
8. Inspect the entire vehicle for damage, including the following components:
- Instrument panel and mounting points
  - Instrument panel braces and brackets
  - Instrument panel knee bolsters and mounting points
  - Safety Canopy® and mounting points
  - Seatbelts, seatbelt buckles, seatbelt retractors and seatbelt anchors.
  - Seats and seat mounting points
  - SRS (supplemental restraint system) wiring, wiring harnesses and connectors

9. After carrying out the review and inspection of the entire vehicle for damage, repair or install new components as needed.
10. Inspect the fuel system for damage or leaks. Repair the system and install new components as necessary.
11.
  - Connect a diagnostic scan tool and view the BCM (body control module) CRASH PID (parameter identification) .
  - If the BCM (body control module) CRASH PID (parameter identification) is present and reads 'Yes', use the diagnostic scan tool to carry out the BCM (body control module) Crash Status Reset under "Electrical - Service Functions".
  - If the BCM (body control module) CRASH PID (parameter identification) reads 'No' or is not present, complete any necessary repairs before returning the vehicle to the customer.