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Service Tips and Best Practices

Best Practices after Suspension and Steering Repair

Brand	All	Product	All	Date	April 2021
Part Number(s)	N/A				

Although the following is not a comprehensive list due to variances in vehicle specific procedures, adhering to the below will assist in ensuring an optimal repair outcome after suspension or steering component replacement.

After Suspension and or Steering Component Replacement:

(1) Resecure all suspension and steering sensors. Ensure there is no binding, pinching or otherwise impinged movement of the sensor wiring or armature. If vehicle is so equipped, this includes:

- Level and or ride height sensors
- Wheel speed sensors
- ABS sensors
- Active, adaptive and or semi-adaptive suspension sensors

(2) Perform vehicle alignment. This will restore suspension geometry and minimize:

- Unwanted loading and or premature failure of the new component
- Rolling resistance and or unnecessary friction
- Excess tire wear
- Impaired vehicle handling and comfort
- Poor gasoline mileage

(3) Reverify all mounting fasteners are correctly torqued at correct vehicle ride height

(4) Perform calibration and or relearn of vehicle's Advanced Driver Assist Systems (ADAS)

Four-Wheel Alignment

With the popularity of All Wheel Drive vehicles and the mandatory implementation of Electronic Stability Control (ECS) systems, it is essential to verify all alignment angles, especially thrust angle, by performing a Four-Wheel Alignment after replacing a suspension and or steering component.

An incorrect thrust angle value may not only manifest itself as an off-center steering wheel and vehicle drift/pull but for example, also may trigger a non-requested activation of the ECS system as it attempts to compensate for a perceived understeer condition.

A Four-Wheel Alignment measures toe, camber and caster values and adjusts those which are applicable but additionally confirms if all four wheels are "square", relative to each other and that there is no significant front end versus rear end offset.

Always ensure to refer to the factory service manual for correct removal and installation procedures, torque and alignment values and sequences.

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