**GENERAL RECOMMENDATIONS**

- Use original quality parts
- Never reinstall a damaged part
- Replace the strut bearing and the strut mount when replacing the shock absorbers
- Replace in pairs (left and right)
- Replace all parts supplied in the NTN-SNR kits (screws, nuts, etc.)
- Make sure to install all parts in the correct order and in the correct orientation
- A damaged strut bearing extends braking distance by 15%
  Don’t forget to change the struts bearing and their strut mount each time you change the shock absorbers (always in pairs)

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**CORROSION**

**DRIVING IMPRESSIONS**
- Steering is heavier
- Continuous squeal when turning steering wheel or on damaged road surfaces

**CAUSES**
- Damaged boot (poor quality part, weather conditions)
- Bad seal integrity
- Ingress of contaminants such as water, salt, mud, sand, etc.
- Vehicle age

**EFFECTS**
- Corrosion of the strut bearing

**RECOMMENDATIONS**
- Locate contaminant water ingress and replace corroded strut bearing and probably the boot as well

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**TEARING OF THE STRUT DAMPING BLOCK**

**DRIVING IMPRESSIONS**
- Feeling of float in front axle
- Degraded suspension performance
- Squeal during rear axle parking

**CAUSES**
- Poor road surface condition
- Inappropriate driving (driving up onto the curb at high speed, etc.)
- Ingress of contaminants
- Defective shock absorber
- Defective strut bearing
- Abrasion component of the assembly (bearing cap)

**EFFECTS**
- Perforation of strut damping block by the shock absorber piston rod
- Windscreen fracture

**RECOMMENDATIONS**
- Replacement of the two complete strut mount kits

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**FRACTURE**

**DRIVING IMPRESSIONS**
- Steering is heavier
- Noise on damaged road surfaces or when turning steering wheel

**CAUSES**
- Bad road condition (repeated passage through potholes) across speed bumps)
- Too frequent shocks
- Defective strut bearing

**EFFECTS**
- Deterioration of the strut bearing

**RECOMMENDATIONS**
- Determination of the cause and repair by replacement of the complete strut mount on both sides

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**MATERIAL DAMAGE**

**DRIVING IMPRESSIONS**
- Reduced comfort

**CAUSES**
- Extreme weather conditions (very low or very high temperatures)
- Chemical contamination (brake fluid, oil, etc.)

**EFFECTS**
- Reduced product service life due to material damage

**RECOMMENDATIONS**
- Carefully follow the correct order and orientation of each component made and make sure no parts are missing.

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**FALSE BRINELL EFFECT (FBE)**

**DRIVING IMPRESSIONS**
- Noticeable immediately on first use of vehicle, “clack” sound of spring on damaged road surfaces

**CAUSES**
- Rigid oscillations during transportation of vehicles on truck or train

**EFFECTS**
- Damage of the strut bearing

**RECOMMENDATIONS**
- Replacement of strut bearing or complete strut mount in pairs

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**INVERTED INSTALLATION**

**DRIVING IMPRESSIONS**
- Noticeable immediately on first use of vehicle, “clack” sound of spring on damaged road surfaces

**CAUSES**
- The strut bearing was not installed in the correct orientation

**EFFECTS**
- Damage of the strut damping block
- Possible failure to pass motor vehicle inspection

**RECOMMENDATIONS**
- Carefully follow the correct order and orientation of each component made and make sure no parts are missing.