

# POSSIBLE DEGRADATION OF STRUT BEARINGS AND STRUT SUPPORT BEARINGS



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With You

## GENERAL RECOMMENDATIONS

- Use original quality parts
- Never reinstall a damaged part
- Replace the strut bearing and the strut mount when replacing the shock absorber
- 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)**

### 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

### TEARING OF THE STRUT DAMPING BLOCK



#### DRIVING IMPRESSIONS

- Feeling of float in front axle
- Degraded suspension performance
- Uneven wear of front tyres

#### CAUSES

- Poor road surface condition
- Inappropriate driving (driving up onto the curb at high speed, etc.)
- Ingress of contaminants
- Defective shock absorber
- Missing components from the assembly (support cup)

#### EFFECTS

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

#### RECOMMENDATIONS

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

#### RECOMMENDATIONS

- Replacement of the two complete strut mount kits

### 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

- Strut bearing breakage



#### RECOMMENDATIONS

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

### 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

- Determination of the cause and repair by replacement of damaged strut damping block

### FALSE BRINELL EFFECT (FBE)

#### DRIVING IMPRESSIONS

- Noticeable immediately on first use of vehicle, "click" sound of spring on damaged road surfaces

#### CAUSES

- Micro-vibrations during transportation of vehicles on truck or train

#### EFFECTS

- Damage of the strut bearing



#### RECOMMENDATIONS

- Replacement of strut bearings or complete Strut mount in pairs

### INVERTED INSTALLATION

#### DRIVING IMPRESSIONS

- Steering is heavier
- Risk of increasing noise level

#### 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 make and make ensure no parts are missing.

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**Removal and installation:**  
of a Strut Mount Kit

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