



Brand of NTN corporation

# POSSIBLE DEGRADATION OF STRUT BEARINGS AND STRUT DAMPING BLOCK



SUSPENSION  
RANGE



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## GENERAL RECOMMENDATIONS

- Use original quality parts
- Never reinstall a damaged part
- Replace the Strut bearing and the strut damping block when replacing the shock absorber
- Replace in pairs (left and right)
- Replace all parts supplied in the 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)

Find our tutorial on  **YouTube** :



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

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# 1 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

## 2 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 fracture



### RECOMMENDATIONS

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

### 3 FAUX EFFET BRINELL (FEB)

#### DRIVING IMPRESSIONS

- Noticeable immediately on first use of vehicle, “clack” 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

## 4 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

- Replacement of the two complete strut mount kits





## 5 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

## 6 INVERTED INSTALLATION

### DRIVING IMPRESSIONS

- Increased torque
- Risk of parasitic noise

### CAUSES

- The strut bearing was not installed in the correct orientation

### EFFECTS

- Damage of the strut bearing
- 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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