



SUSPENSION range

POSSIBLE DEGRADATION OF STRUT BEARINGS AND STRUT DAMPING BLOCK

NTN **SNR**

www.nten-snr.com



With You



1 Corrosion

2 Fracture

3 False brinelling effect (FBE)

4 Tearing of the strut damping block

5 Material Damage

6 Inverted installation

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 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)

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 FALSE BRINELL EFFECT (FBE)

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

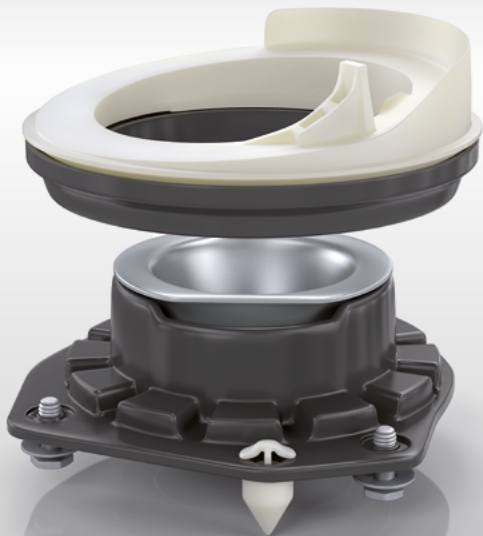
EFFECTS

- Damage of the strut 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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