Paper Catalogue





CAT-LVGAB-10 Cover



CAT-LVGAB-10 Content

Catalogue Region: Europe

Total Number of References: 1467

Product Groups: Shock Absorber, Strut Mount Kits

Number of Applications: 47.550

Vehicle Range: Passenger Cars and Light Commercial

Park Coverage: 77,88 % Europe

CAT-LVGAB-10 Additional Content

Gabriel

Gabriel Shock Absorber Range



Complete MacPherson strut

Hydraulic 35000/55000 Gas G35000/G55000/G56000



Shock absorber with spring seat
-lydraulic 51000 Gas G51000



MacPherson strut Insert

Hydraulic 44000 Gas G44000



ydraulic 42000 Gas 69000



Extra heavy duty shock absorber
Hydraulic 83000 Gas G63000



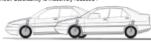
Gabriel ®

Regular Check

Worn shock absorbers have a multitute of negative influences on the driveability of the vehicle and as a consequence on driver's safety.



A worn shock absorber reduces the contact between road and wheel. Steerability is massively reduced!



Worn shock absorbers can affect everything from braking to handling:

- Braking distances increased by 15%
- 15% greater chance of aquaplaning
 Tyre life reduced by 25%
- Disruption of vehicle stability systems

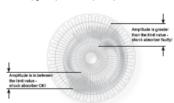
Worn shock absorbers can also cause stress on many other parts, from wheel bearings to steering system. Replacing them at the right time could prevent more costly repairs at a later date.

It is recommended that all four shocks are replaced at the same time. At the very least shock absorbers should be replaced in pairs, with either the front or rear pair changed at the same time. Shock absorbers with uneven wear or different types of shock absorbers on the vehicle will affect vehicle handling and performance.

Gabriel recommends to check the shock absorbers every 20,000 - 30,000 km and replace them at about 80,000 km in pairs to ensure a safer journey!

Workshop test

A visual check of a shock absorber can only give a partial hint of its schinical condition. In order to determine, whether a shock absorber must be renewed, a test on a special test stand is necessary. Usually at least two shock absorbers are examined at the same time by being shifted in oscillation. These are then noted over the entire frequency range. The picture shows the recording of a defective (right side) and an intiac (left side) shock absorber.



If the measured resonance amplitude is greater than the limit value given (area between the green circles), the damper is faulty. With such an instrument, the workshop is able to explain the necessity for a shock absorber change to its customer.

Diagnosis



Rubber block

The rubber block or bump stop is an essential part in many systems. Its function is to limit the piston travel during the compression phase. The elastic rubber block prevents the valve on the lower end of the piston from hitting the bottom of the shock and being destroyed.

If the rubber block is damaged it has to be replaced in axie sets.



Top mount

The top mount has two functions. The bearing inside allows the Mc-Pherson strut to turn during steering. The bearing is vuicanised into a bracket. This rubber also dampens the vibrations from the road.

Successful Repair

- Utmost cleanliness is required when working on shock absorbers
- Shock absorbers must only be replaced in axle sets
- Always replace self-locking nuts, bolts and splints
- Replace all fitting parts delivered with the shock absorbers
 Welding and straightening work on steering and suspension parts is not
- Always use the appropriate tools do not use airtools for
- Do not grip the piston rod in any way
- Always tight the screws and nuts with the correct torque and the wheels on the ground



Oust Cover

Rubber block and dust cover are the shield of the shock absorber.

The dust cover protects the piston rod from any outside "aggression" like stones, gravels, sand etc.

Protecting the piston rod helps to prevent leaking which is the main cause of shock absorber maifunction.



Uneven tire w

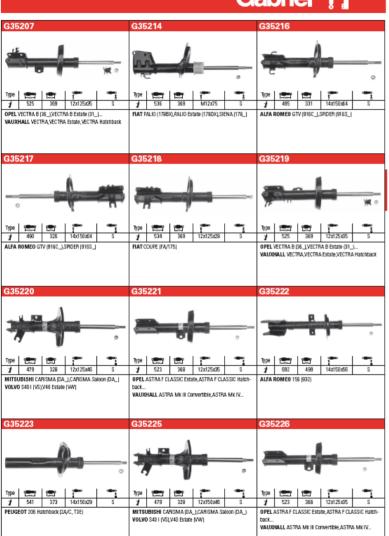
Worn out spots along the centerline of a tire may be the Indication of defect shock absorbers. The reduced contact between road and tire, caused by wom shocks, results in tire wear as shown on the picture above

Always refer to the vehicle manufacturers guidelines when replacing shock



CAT-LVGAB-10 Additional Content

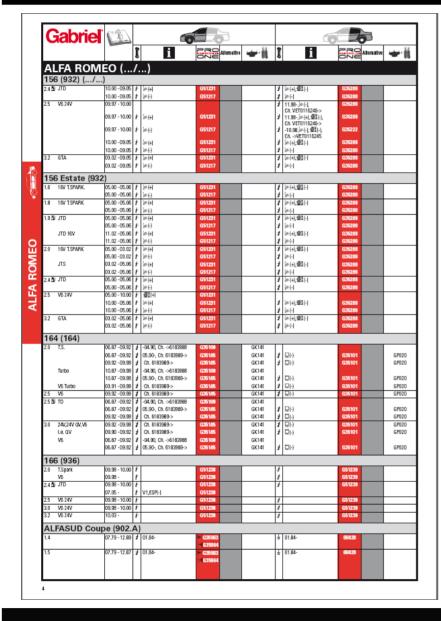


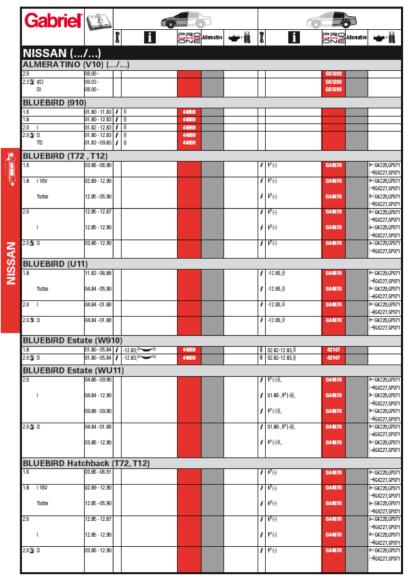


X → Gabrieľ

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Application Part





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