

V O L V O

Our most refined ride ever

Suspension System



The way a truck handles directly impacts driver productivity. All four key areas of the suspension system on the all new Volvo VNL have been redesigned: front, engine, cab, and rear. The result is an enhanced ride that eliminates most road inputs and vibrations, delivering our best ever driving experience.

Every aspect of the ride was considered. The improvements begin with a longer, softer front spring and enhanced stabilizer bar. Improved bushings are re-positioned for the engine, reducing noise and vibration. The new and improved cab suspension offers a wider stance at the rear airbag locations, so the cab stays level and free floating.

The most notable improvements can be found in the rear of the vehicle. The soft-riding Global Rear Air Suspension (GRAS) is now an option to provide greater stability. GRAS uses upright shocks and tuned airbags to cushion the vehicle. This counteracts frame lift during acceleration

and reduces most of the noise and vibration you expect under normal driving conditions.

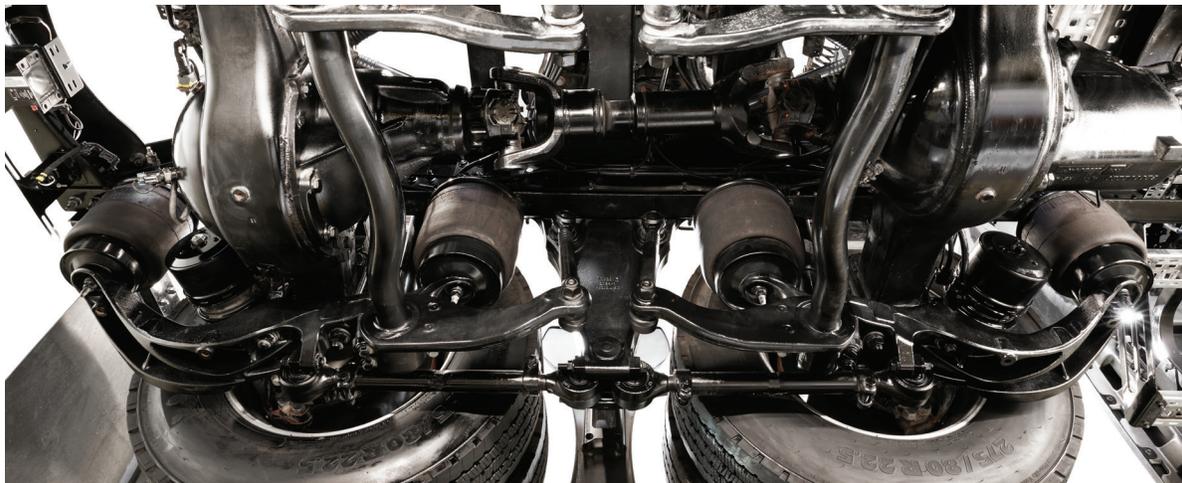
The enhanced electronic suspension control further improves vehicle handling by constantly monitoring and responding to road vibrations and driver actions.

Benefits

- **Reduced noise and vibration deliver improved driver comfort, safety, and satisfaction**
- **Decreased chassis movement can improve tire performance and life**
- **All-new, optional GRAS system improves rear performance with upright shocks and tuned airbags**
- **Wider stance for the cab rear airbag locations creates a more stable environment for driver and passengers**
- **Increased reliability in the front with highly durable components, including a redesigned sway-bar and springs**

Volvo Trucks. Driving Progress.

V O L V O



Four areas of improvement to the suspension system give the all-new Volvo VNL our most comfortable ride ever:

Front suspension

The groundbreaking technology features front pads and longer, softer front springs. The new, 95 mm longer springs reduce road input. A front stabilizer bar complements the springs and improves handling by equalizing forces throughout the cab during turns, lane changes, and other maneuvers.

Engine suspension

The new V-shaped layout of the rubber bushing is repositioned to provide greater cushioning and transfer less vibration and noise from the engine to the rest of the tractor. The suspension still allows for the engine to drop down and away from the driver in the event of a front-end collision.

Cab suspension

The completely redesigned cab suspension offers enhanced comfort whether you are riding in the driver seat or the sleeper. It features an adjustable pan-hard rod to control the cab position for increased comfort, as well as improved aerodynamics. Front vertical bushings and two available rear airbag options also enhance ride and durability. Rougher roads are tamed as well, thanks to longer rear cab shocks.

Rear suspension

The all-new, optional GRAS technology is Volvo's most advanced rear suspension offering. GRAS features a group of tuned airbags to soften the ride, while counteracting frame lift under acceleration. The time-proven VOAS rear suspension remains available for appropriate applications.

Important features of the optional GRAS system for enhanced rear stability:

- Driver can select from three adjustable ride heights with premium level ECS.
- Bogie spacing: 54"
- Rear suspension capacity: 46,000 lbs
- New V-STAY with internal safety catch

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Some vehicle options and services may not be available at time of introduction.

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