Audi A6 Avant - chassis technology with air suspension and all-wheel steering

The perfect blend of sportiness and comfort: the chassis

The new A6 Avant impresses with its extremely comfortable ride, a strength that is particularly apparent on longer journeys. It embodies the business class experience like no other model. Adaptive air suspension and all-wheel steering for the quattro variants make a key contribution here, significantly improving maneuverability at low speeds and noticeably increasing precision and stability at high speeds. The A6 Avant effortlessly perfects the synthesis of sportiness and comfort in line with driving characteristics typical of Audi: precise, controlled, solid, connected, and well-balanced – or, in short, the Audi DNA.

The front and rear axles of the new Audi A6 Avant use a five-link design, largely made of aluminum. Two subframes – the front being rigidly mounted and the rear hydraulically mounted – connect the control arms to the body.

Three suspensions are available:

- the standard suspension, designed to be even more comfortable than its predecessor
- the sports suspension, which lowers the body by 20 millimeters for distinctly sporty handling (standard with the S line exterior package)
- the adaptive air suspension with electronically controlled damping, which gives the vehicle a wide range of options between a very smooth, comfortable ride and sporty handling

The optional adaptive air suspension with adjustable damping on all four wheels regulates the body height and shock absorption. The adaptive air suspension automatically balances out the vehicle load, ensuring the car stays level. Compared to the standard suspension, the A6 Avant is 20 millimeters (0.79 in) lower in normal mode (*balanced*, *comfort,* and *efficiency* mode), the same as with the sports suspension. In *dynamic* mode, the ride height is lowered by another 10 millimeters (0.39 in) for a sporty driving feel. To reduce drag, the body is lowered to the low level at speeds above 120 km/h (75 mph) even in *balanced* and *efficiency* modes. In contrast, the lift function raises the A6 Avant by 20 millimeters (0.79 in) above the normal level and can now be used up to a speed of 85 km/h (53 mph). This function ensures safety and forward momentum even in challenging driving conditions, such as on snowy or uneven roads.

The dynamic handling system Audi drive select is used to adjust the vehicle’s ride height and to control the steering and drivetrain settings. The spread between the driving modes

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has been increased: handling in *dynamic* mode is noticeably tighter and sportier, while *comfort* mode is designed for smooth, comfortable driving on long journeys. And thanks to the Audi assistant, the adaptive air suspension can now be operated by voice control for the first time in the A6, with simple commands like “raise the vehicle” or “lower the air suspension.”

All tires for the A6 Avant have been specifically tuned and optimized in terms of rolling resistance. In 20-inch and 21-inch sizes, performance tires are available as an option, offering impressively dynamic handling and even shorter braking distances.

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