
Audi A8 – Predictive active suspension

The highlight of the enhanced A8 is the predictive active suspension. It can load or unload each wheel with additional power individually via an electric motor and thereby actively regulate the position of the chassis in any driving situation. Predictive active suspension gives the driving experience in the Audi A8 a fascinating range. When dynamic mode is on in the Audi drive select system, the large sedan shows its sporty side. It firmly turns into corners, the roll angles are small, and the body hardly dips when braking. In comfort+ mode, by contrast, it smoothly breezes over unevenness. Here, the steering works in conjunction with the front camera, allowing it to recognize unevenness within the system limitations and predictively regulate the actuators.

In comfort+ mode, the predictive active suspension has a special feature: its integrated curve tilting function reduces the lateral acceleration that acts on the occupants. Upon entering a curve, it elevates the side of the body on the outside of the curve and lowers the other side, thereby tilting it into the curve up to three degrees. At speeds between 80 and 130 km/h (59.7 to 80.8 mph) and lateral acceleration of up to 0.4g, cornering is scarcely noticeable. While driving straight in comfort+, the predictive active suspension compensates for pitching movements in the chassis. To help with getting in and out of the car comfortably, the body raises and lowers itself by up to 50 mm (2 in.).

The wheel range for the enhanced Audi A8, which goes from 18 to 21 inches, includes six new designs from Audi and Audi Sport. In top versions like the Audi S8*, Audi offers carbon fiber ceramic brake disks as an option. * Audi S8: Combined fuel consumption in l/100km: 10.8–10.7 (21.8–22.0 US mpg); Combined CO₂ emissions in g/km: 246–245 (395.9 –394.3 g/mi) Information on fuel/power consumption and CO₂ emissions in ranges depending on the chosen equipment level of the car.

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