

Product and Technology Communications

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Crossover in a compact package: The Audi allroad shooting brake show car

- Crossover concept car is highly functional for recreational sports
- Powerful and efficient hybrid drive features two electric motors
- Prof. Dr. Ulrich Hackenberg: "A concrete look into the near future."

Ingolstadt/Detroit, January 12, 2014 – Sporty, compact and versatile: It is with these attributes that the Audi allroad shooting brake makes its debut at the North American International Auto Show (NAIAS) in Detroit. The two-door car is a crossover and so it is not limited to paved roads. Its high level of functionality makes it ideal for recreational sports. Its hybrid drive, which is as powerful as it is efficient, makes a new form of quattro drive possible – the e-tron quattro.

"The show car combines sex appeal, highly efficient e-tron-quattro technology that produces 300 kW of power yet only consumes 1.9 l/100 km (123.80 US mpg) of fuel and cutting-edge electronic applications," says Prof. Dr. Ulrich Hackenberg, Member of the Board of AUDI AG, Technical Development. "We are offering very concrete glimpses of the near future in this show car."

The brand with the four rings is extending its design language in the Audi allroad shooting brake. The compact two-door show car combines a host of visual elements of future sports car models with the Audi-typical allroad concept and "shooting brake" car body form. Its user interface strategy also offers an outlook on future production solutions.

Sculptural: exterior design

The Audi allroad shooting brake maintains a powerful stance on the road. The interplay of its cleanly drawn lines and the taut muscular tension of its surfaces create a sculptural, emotional design. The exterior skin appears as though it were sculpted from one solid piece, from the single-frame grille to the distinctive tornado line and crisp rear styling, in which the characteristics of the allroad and the shooting brake come together.



With a wheelbase of 2.51 meters (8.23 ft), the show car – painted in Ice Blue – is 4.20 meters (13.78 ft) long, 1.85 meters (6.07 ft) wide and 1.41 meters (4.63 ft) tall.

The Audi allroad shooting brake represents the first time that Audi has combined the allroad and e-tron form languages. As on every Audi, the large hexagonal single-frame grille dominates on the impressive sculptural front; it is slightly offset towards the rear of the body. Typical of an e-tron model, it has an insert with narrow fins, which resemble the cooling ribs of an electronic component. There is a quattro logo on the lower part of the single-frame. The low-profile central air inlet is milled into the underbody protection that is made of aluminum.

The low-profile dual headlights of the Audi allroad shooting brake are a classic reference to the form language of the Audi quattro models. At the same time, it represents an advanced development state of quattro design, which Audi already hinted at in the Sport quattro concept car in September 2013 at the IAA show in Frankfurt am Main. Braces partition the headlights into four segments; the matrix LED technology with its individually controlled light-emitting diodes guarantees excellent visibility without causing glare to oncoming traffic. Beneath the headlights, narrow cross fins provide structure to the large air inlets.

In a side view as well, the characteristic lines of the show car give the impression of concentrated energy. Its overhangs are short, and its roof line stretches low over the vehicle body. Typical of the shooting brake style, it descends early and runs out into the distinctive C-pillars. There is a charging port in the left pillar and a fuel door in the right pillar.

The exterior skin of the Audi allroad shooting brake is a material mix of aluminum and carbon fiber reinforced polymer (CFRP). The dark gray rub strips are typical allroad elements, and they visually reduce the volume of the body; they ascend dynamically from front to rear. Together with the large wheel flares, they highlight the car's offroad character.

Fine details attest to the precision with which the show car was designed. There are aluminum inlays in the angular sill add-ons. The large lightweight wheels have rims made of CFRP. Their finely detailed styling with seven arms is based on the look of the e-tron models, while their central locks are another feature that highlights the sporty character of the compact crossover.



At the rear, the aluminum underbody protection emphasizes the car's width; its implied grooves vary from the e-tron motif. Horizontal, logically sequenced lines define the outlines of clean surfaces and taut volumes; the styling of the tail lights takes up the motif of the headlights. A diffuser integrates the two large exhaust tailpipes. The open roof spoiler further accentuates the design. The third brake light, implemented as a flat light conductor, elegantly complements the rear design.

Joy of use: interior and user interfaces

The versatility and functionality of the Audi allroad shooting brake is ideal for young, sporty and active people. In the winter in California, for example, they could drive the car from Los Angeles to the San Gabriel Mountains for snowboarding in the morning, and then head out to at Venice Beach for some kite surfing in the afternoon.

There is plenty of room for four passengers inside. In front, the narrow sport seats give the driver and front passenger optimal body support; they feature highly contoured lateral panels and integrated head restraints, while cushioned pads support the thighs in quick driving through curves. An easy entry function makes it easier to enter the rear seating area. When the rear seatback is folded down, a cargo area with a level cargo floor is created, in which there is space for rather large sports equipment.

Designed with clean and taut lines, the interior of the show car utilizes the colors anthracite and rock grey. The materials reflect the skillful handiwork of Audi designers – this is evident in the alcantara rooflining and in the various qualities of leather and the bright and dark aluminum materials that are used for controls and trim, e.g. on the air nozzles and the spokes of the multifunction steering wheel.

The interior design of the Audi allroad shooting brake also follows the Audi philosophy of lightweight design, sporty elegance and easy to use controls. When viewed from the top, the instrument panel resembles the wing surface of an airplane, and the round air nozzles elicit associations to jet engines. The controls for the climate control system are located here. Their center spindles contain the controls for seat heating, temperature and the direction and intensity of the air streams. They automatically extend out from the instrument panel when they sense a hand approaching. The lights are activated by a button, and a plate-type handle opens the door.



The center console travels together with seat adjustments so that the controls remain at an optimal distance to the driver. Individual fine adjustment is also possible. The controls – the electronic selector lever of the e-S tronic (shift-by-wire) and the terminal of the MMI user interface – are always ideally within reach and can be optimally adjusted to the height and preferences of the driver.

The new design of the MMI terminal and sporty design of the multifunction steering wheel lets the driver control nearly all functions of the Audi allroad shooting brake intuitively. The operating strategy imparts a new type of "joy of use" – the menu structure is based on that of a smart phone, which includes a free text search function. It is easy to access all major functions, and multitouch gestures on the touchpad of the MMI terminal enable quick scrolling and zooming in lists and maps.

The cockpit is very focused on the driver. The steering wheel and digital instrument cluster lie in a single direct line of sight. The TFT display with its 12.3 inch screen presents all key information in top quality 3D graphics and offers a variety of modes. In the classic view, the powermeter for the plug-in hybrid drive system and the speedometer are in the foreground, while in Infotainment mode elements such as the large navigation map dominate, and in Sport mode the tachometer is prominently displayed.

Another forward-looking feature in the show car is the Audi phone box, which links the driver's cell phone to the vehicle electrical system and can inductively charge it as necessary.

Three drive units: plug-in hybrid drive

The plug-in hybrid drive delivers impressive key performance data with 300 kW (408 hp) of system power and a system torque of 650 Nm (479.42 lb-ft). The show car, which weighs around 1,600 kg (3527.40 lb) without the driver, launches from a standstill to highway speed (62.14 mph) in 4.6 seconds, and its forward acceleration does not quit until it is electronically limited at 250 km/h (155.34 mph). The compact crossover has a low fuel consumption figure of 1.9 liters of fuel per 100 km (123.80 mpg) (45 g $\rm CO_2$ per km [72.42 g/mile]) based on the relevant ECE standard. Its total driving range is up to 820 km (509.52 miles).



The 2.0 TFSI in the Audi allroad shooting brake outputs 215 kW (292 hp) of power and generates 380 Nm (280.27 lb-ft) of torque. The transverse mounted two-liter four-cylinder with a large turbocharger is a high-end engine. In part-load operation, indirect injection supplements direct gasoline injection to improve fuel economy; the exhaust manifold that is integrated in the cylinder head enables high-performance thermal management.

The 2.0 TFSI operates together with a disc-shaped electric motor via a decoupling clutch; the electric motor outputs 40 kW of power and 270 Nm (199.14 lb-ft) of torque. It is integrated in the six-speed e-S tronic. The dual clutch transmission, which shifts at lightning speed, sends torque to the front wheels.

A second electric motor, which is separate from this drive unit, is mounted to the rear axle. It supplies propulsive power at low and moderate vehicle speeds with its maximum power of 85 kW and 270 Nm (199.14 lb-ft) of torque. It can also be operated in tandem with the motor and engine at the front axle if the hybrid management system decides that all-wheel drive makes sense. In such situations, e.g. on a slippery road or in light off-road conditions, this essentially makes the Audi allroad shooting brake an e-tron quattro.

Located just forward of the rear axle is a lithium-ion battery that consists of eight modules. It contributes towards a balanced distribution of weight, and it hardly affects cargo capacity at all. The liquid-cooled battery has an energy capacity of 8.8 kWh, which is enough for 50 km (31.07 miles) of all-electric driving. An Audi wall box is used for stationary charging; it can operate with different voltages and plug connector types, and it regulates the energy transfer conveniently and intelligently.

Drive select management offers three driving modes. There is the EV mode, which can be selected by a button on the multifunction steering wheel; it prioritizes all-electric driving. Here, the front drive unit is inactive, and the electric motor at the rear axle with its powerful torque can rapidly accelerate the two-door car to a top speed of 130 km/h (80.78 mph).

In Hybrid mode, the drive sources operate highly efficiency, and they work together in various ways as necessary. In many situations, the electric motor in front acts as a generator – driven by the engine, it charges the battery, and this extends the car's effective electric driving range.



In Sport mode, which the driver can select via the Audi drive select system, the car's full system power is available. When a high level of power is demanded by the driver, the electric motor at the rear axle works together with the 2.0 TFSI in a boost mode, in which both drive units output propulsive power.

Depending on the driving situation, releasing the accelerator pedal can cause all drive units to be decoupled, or it can result in energy recovery by regenerative braking. In the first case, the show car coasts with zero emissions since the combustion engine is shut off; in the latter case, braking energy is fed back into the high-voltage battery.

The driver can use the "Hold" and "Charge" functions in the MMI user interface to specifically influence the battery's charge state, e.g. to increase storage of electric energy so that it can be used over the final kilometers to the destination.

Chassis

An electro-mechanical steering system is at work in the chassis of the Audi allroad shooting brake; it works together with a MacPherson front suspension and a four-link rear suspension. The sporty crossover is very talented in off-road driving thanks to its high ground clearance, compact wheelbase, short overhangs and electric quattro drive. It has a taut and sporty stance on the road, and the Audi drive select vehicle dynamics system offers various modes to the driver. Size 255/40 tires are mounted to its 19-inch wheels.

- End -

The Audi Group delivered around 1,575,500 cars of the Audi brand to customers in 2013. From January through the end of September 2013 the Company posted revenue of €37 billion and an operating profit of €3.74 billion. The Audi Group is globally present in more than 100 markets and produces vehicles in Ingolstadt and Neckarsulm (Germany), Győr (Hungary), Brussels (Belgium), Bratislava (Slovakia), Martorell (Spain), Kaluga (Russia), Aurangabad (India), Changchun (China) and Jakarta (Indonesia). The brand with four rings produces cars also in Foshan (China) since December 2013, in 2015 in São José dos Pinhais (Brazil) and 2016 in San José Chiapa (Mexico). AUDI AG's wholly owned subsidiaries include quattro GmbH (Neckarsulm), Automobili Lamborghini S.p.A. (Sant'Agata Bolognese, Italy) and the sports motorcycle manufacturer Ducati Motor Holding S.p.A. (Bologna, Italy). The Group currently employs almost 73,000 people worldwide, including around 50,000 in Germany. Total investment of around €22 billion is planned from 2014 to 2018 – mainly in new products and sustainable technologies. Audi lives up to its corporate responsibility and has strategically established the principle of sustainability for its products and processes. The long-term goal is CO₂-neutral mobility.