



Press Information
July 17, 2023

The all-new Mercedes-AMG GLC: Performance SUV in two high-performance versions

- AMG-characteristic exterior and interior design
- AMG hand-built M139l 2.0-liter four-cylinder engine with electric exhaust gas turbocharger
- Additionally available with AMG-specific performance hybrid technology
- AMG RIDE CONTROL suspension and rear-axle steering as standard
- Extensive scope of equipment and new design packages

Affalterbach. More power, more equipment, and more driving pleasure: The new Mercedes-AMG GLC replaces its highly successful predecessor with a host of innovations. The performance SUV is available in two models: the AMG GLC 43 and AMG GLC 63 S E PERFORMANCE – the first AMG performance hybrid SUV.

"The Mercedes-AMG GLC SUV is an absolute success with our customers. Our two versions with different characters for the sporty-urban lifestyle are superior all-rounders and precisely tailored to individual customer wishes. With the E PERFORMANCE drive in the GLC 63 S, we are also launching the first performance hybrid SUV. The all-wheel-drive system, the active rear-axle steering and the quick-shifting transmission enhance the emotionally appealing hallmark AMG driving experience."

Michael Schiebe, CEO of Mercedes-AMG GmbH and Head of business units
Mercedes-Benz G-Class & Mercedes-Maybach

In the GLC 43, the AMG M139l 2.0-liter four-cylinder engine with electric exhaust gas turbocharger produces 416 hp and has an additional boost of 13 hp via the belt-driven starter-generator at lower engine speeds. The standard rear-axle steering, AMG Performance 4MATIC permanent all-wheel drive with rear-biased torque distribution, AMG SPEEDSHIFT® MCT 9G transmission with wet start-off clutch and AMG RIDE CONTROL suspension with Adaptive Damping System also contribute to the dynamic driving experience.

The hybrid powertrain exclusive to Mercedes-AMG in the GLC 63 S E PERFORMANCE is a technical masterpiece. It combines the AMG M139l 2.0-liter turbo engine with an Electric Drive Unit (EDU) on the rear axle to deliver a 671 hp combined system output and 752 lb-ft combined system torque. The immediate response of the electric drive on the rear axle, fast torque build-up and rapid power delivery contribute to the vehicle's outstanding performance. In addition to the impressive total power output, the independent hybrid layout also ensures a balanced weight distribution – benefiting driving dynamics and handling in equal measure.

Depending on the drive program and driving conditions, the electric motor boosts power and torque according to the situation. An Electric-only mode enables all-electric driving under certain conditions. The electric powertrain and 400-volt high-performance battery are AMG-exclusive in-house developments. Much

like the powerpack utilized in Formula 1™, the battery is specifically designed for fast power output and draw with innovative direct cooling of the cells.

Another highlight is the fully variable AMG Performance 4MATIC+ all-wheel drive for even more driving pleasure. Added to this is the standard active rear-axle steering, which combines agility and stability.

Characteristic AMG elements for the exterior and interior provide a sporty, refined appearance

Numerous AMG-specific details underscore the dynamic and high-quality character of the new Mercedes-AMG GLC SUV models. These include the AMG-specific radiator grille with vertical struts and the AMG front fascia with flics, sporty air intakes and chrome trim element. Flics, large inlets and air curtains direct the airflow specifically to the various functions. Harmoniously integrated side sill panels, the diffuser-look rear fascia (GLC 43) or additional diffuser board (GLC 63 S E PERFORMANCE) and the two twin tailpipe trims (round on the GLC 43, trapezoidal on the GLC 63 S E PERFORMANCE) highlight the vehicle's exterior.

In the interior, AMG seats in MB-Tex/microfiber with distinctive graphics and upholstery add a sporty touch. Optional leather and Nappa leather upholstery with an embossed AMG crest in the front headrests is available. The interior can also be fitted with AMG Performance seats as an option.

The AMG Performance steering wheel in Nappa leather (GLC 43) or Nappa leather/microfiber (GLC 63 S E PERFORMANCE) is equipped standard. It is flattened at the bottom and features aluminum gearshift paddles. Two round AMG DRIVE UNIT buttons allow fast and intuitive operation of various dynamic driving functions and the AMG DYNAMIC SELECT drive programs. The sporty-luxurious atmosphere is rounded off by AMG sports pedals, floor mats and illuminated door sills.

The MBUX infotainment system features AMG-specific displays and functions. These include special displays on the instrument cluster, central multimedia display and optional head-up display. The AMG-exclusive "Supersport" style offers the option of showcasing driver-focused content in a vertical format. This includes a set-up menu that displays the current settings of the suspension or transmission. In addition, the driver can have a navigation map or consumption data displayed.

AMG TRACK PACE, the optional data logger for use at the racetrack, is also integrated. The software records more than 80 vehicle-specific data points such as speed, acceleration and steering angle ten times per second while the car is driven on the track. There is also a display of lap and sector times as well as additional training and analysis tools.

AMG M139l 2.0-liter four-cylinder with electric exhaust gas turbocharger

At the heart of the new Mercedes-AMG GLC models is the AMG M139l 2.0-liter four-cylinder engine, which combines innovative technologies and high performance with exemplary efficiency. It remains true to a tradition typical of the brand. Not only was it developed entirely at the company's Affalterbach site, it is also installed there in accordance with the "One Man, One Engine" principle. In doing so, Mercedes-AMG combines the craftsmanship of its highly qualified employees with the latest production methods of Industry 4.0 and a high degree of digitalization.

The M139l engine, as it is known internally (l for longitudinal installation), is the only production engine in the world to date that is turbocharged with an electric exhaust gas turbocharger. The system is a direct derivative of the technology the Mercedes-AMG Petronas F1™ Team has been using successfully in the premier class of motorsport for many years. The new form of turbocharging guarantees particularly spontaneous response across the entire rpm range. This leads to an even more dynamic driving experience while also increasing efficiency.

The functional principle of the electric exhaust gas turbocharger in detail

A 1.6-inch thin electric motor is integrated directly on the turbocharger shaft between the turbine wheel on the exhaust side and the compressor wheel on the intake side. This directly drives the shaft of the turbocharger and is electronically controlled, accelerating the compressor wheel before the exhaust gas flow takes over the drive in a conventional manner.

This significantly improves the response directly from idle speed and across the entire rpm range. The combustion engine responds even more spontaneously to accelerator pedal input, while the entire driving feel is significantly more responsive. In addition, the electrification of the turbocharger allows higher torque at low rpms. This also increases agility and optimizes acceleration from a standstill. Even when the driver lifts off the accelerator or brakes, the technology is able to maintain boost pressure at all times. This ensures a continuously direct response.

Powered by the 48-volt on-board electrical system, the electric exhaust gas turbocharger operates at speeds of up to 175,000 rpm, which enables a very high air flow rate. The turbocharger, electric motor and power electronics are connected to the combustion engine's cooling circuit to create an optimal temperature environment at all times.

Compared to the GLC 43, however, the turbocharger in the GLC 63 S E PERFORMANCE is significantly larger. This delivers a higher air flow rate and thus more power. In addition, the integrated electric motor is driven by the 400-volt high-voltage system.

The closed deck design of the M139l ensures high rigidity at low weight. This enables peak combustion pressures of up to 2,300 psi. The areas around the cylinders are largely closed, and the cover plate is only pierced by smaller channels for the coolant and engine oil. Another outstanding feature of the engine is the two-stage gasoline injection. In the first stage, particularly fast and precise piezo injectors deliver the fuel into the combustion chambers at pressures of up to 2,900 psi. The second stage adds intake manifold duct injection with solenoid valves, which is needed to achieve the engine's high power output.

416 hp and 369 lb-ft of torque enable sporty driving performance

Innovative technology helps the 2.0-liter engine in the Mercedes-AMG GLC 43 to achieve an output of 416 hp at 6,750 rpm and 369 lb-ft of torque at 5,000 rpm. Depending on the situation, the system also briefly provides an additional boost of 13 hp by the belt-driven starter generator (RSG). The second-generation RSG acts as a mild hybrid, providing this temporary boost of power as well as functions such as gliding and recuperation to maximize efficiency. With this 48-volt technology, the transitions between the start/stop function and the gliding function are almost imperceptible.

The GLC 43 accelerates from a standstill to 60 mph in 4.7 seconds. The top speed is electronically limited to 155 mph.

E PERFORMANCE Hybrid with 671 hp system output and up to 752 lb-ft system torque

In the GLC 63 S E PERFORMANCE, the M139l produces 469 hp at 6,725 rpm. This makes it the most powerful series-produced four-cylinder engine in the world. The maximum torque of 402 lb-ft is available at 5,250–5,500 rpm. In the performance hybrid, the 2.0-liter engine is combined with a permanently excited synchronous electric motor, a high-performance battery developed in Affalterbach and the fully variable AMG Performance 4MATIC+ all-wheel-drive system. The system output of 671 hp and the maximum system torque of 752 lb-ft enable impressive driving performance. Acceleration from a standstill to 60 mph takes just 3.4 seconds and only ends at an electronically limited 171 mph.

The 201 hp electric motor is positioned at the rear axle, where it is integrated with an electrically shifted two-speed transmission and the electronically controlled limited-slip rear differential in a compact electric drive

unit (EDU). Experts refer to this layout as a P3 hybrid. The lightweight high-performance battery is also located in the rear above the rear axle. This compact design has numerous advantages.

The electric motor acts directly on the rear axle and can therefore convert its power more directly into propulsion – for that extra boost when starting off from a standstill, accelerating or overtaking. The inherent design of the electric motor means that full torque is available almost instantaneously, making particularly agile acceleration possible. In addition, the driver immediately experiences a noticeable performance increase thanks to the integrated, electronically controlled limited-slip rear differential.

If wheel slip occurs at the rear axle, the drive power of the electric motor is also transferred to the front wheels as needed for more traction. The mechanical connection of the fully variable all-wheel drive makes this possible by means of the drive shaft and drive axles of the front wheels. The positioning at the rear axle improves the weight and axle load distribution in the vehicle. This forms the basis for the exemplary handling.

The AMG concept offers very high recuperation efficiency, as the system allows only minimal mechanical and hydraulic losses from the engine and transmission. The automated two-speed transmission at the rear axle with its specially calibrated gear ratio ensures the spread from high wheel torque for agile starting to safe continuous output at higher speeds. An electric actuator engages second gear at up to 87 mph, which corresponds to the electric motor's maximum speed of approximately 13,500 rpm.

With the increase in performance due to the additional electric motor, the development team was also able to improve the efficiency of the entire vehicle in parallel to achieve lower emissions and fuel consumption.

Inspired by Formula 1™, developed in Affalterbach: the AMG high-performance battery

The development of the lithium-ion energy storage system is inspired by technologies proven in the Mercedes-AMG Petronas F1 Team's Formula 1™ hybrid race cars. In the course of the development, the experts from the Formula 1™ engine shop High Performance Powertrains (HPP) in Brixworth, UK collaborated closely with Mercedes-AMG in Affalterbach. The AMG high-performance battery combines high power that can be called up frequently in succession with low weight to increase the overall performance of the vehicle. Added to this are the fast energy draw and high power density.

107 hp continuous output and 201 hp peak output

The high-performance battery in the GLC 63 S E PERFORMANCE offers a capacity of 6.1 kWh, 107 hp continuous power and 201 hp peak power for ten seconds. Charging takes place via recuperation or the 3.7 kW on-board AC charger at a charging station, wallbox or household socket. The battery is designed for fast power delivery and draw rather than longest possible range.

The continual push for innovation: direct cooling of the battery cells

The basis for the high performance of the AMG 400-volt battery is its innovative direct cooling system. A high-tech coolant based on an electrically non-conductive liquid flows around all 560 cells and cools them individually. Every battery needs a defined temperature for optimum power delivery. If the energy storage unit gets too cold or too hot, it temporarily loses noticeable power or has to be turned down in order not to be damaged if the temperature level is too high. The consistent temperature of the battery therefore has a decisive influence on its performance, service life and safety. The AMG system is designed to ensure even heat distribution in the battery.

The battery is always within a consistent, optimum operating temperature window averaging 113 degrees Fahrenheit, no matter how often it is charged or discharged. Should the average temperature be exceeded when driving at high speeds, protection mechanisms are configured so that the maximum power can be drawn from the battery in order to subsequently lower the temperature level again through direct cooling.

Operating strategy: electric power always available

The basic operating strategy is derived from the hybrid powerpack of the Mercedes-AMG Petronas Formula 1 race car. As in the top class of motorsport, maximum propulsion is always available when the driver accelerates aggressively – for example, to accelerate powerfully out of corners or when overtaking. The electric power can always be called on and frequently reproduced via high recuperation performance and needs-based recharging.

Performance Hybrid Drive can precisely control traction

The control of vehicle dynamics also benefits from the hybrid drive. Instead of braking intervention by ESP® (Electronic Stability Program), the electric motor can also control traction as soon as a wheel signals too much slip. To achieve this, the intelligent control system reduces the drive torque of the electric motor, which is transmitted to the wheel via the limited-slip rear differential. As a result, ESP® does not have to throttle the combustion engine, enabling the engine to be operated at higher torque. This improves agility and the otherwise reduced power can be used to charge the battery.

AMG SPEEDSHIFT® MCT 9G transmission with wet start-off clutch

Engine power is transmitted in both Mercedes-AMG GLC models via the AMG SPEEDSHIFT® MCT 9G transmission (MCT = Multi-Clutch Transmission), in which a wet start-off clutch replaces the torque converter. It reduces weight and, thanks to its lower inertia, optimizes response to accelerator pedal input, especially during spurts and load changes. The extensively tuned software ensures extremely short shift times as well as fast multiple downshifts if required. In addition, the double-declutching function in the "Sport" and "Sport+" drive programs deliver a particularly expressive shifting experience. There is also the RACE START function, which ensures optimal acceleration from a standstill. The ECO start/stop function is automatically activated in the "Comfort" drive program and the "Glide" function can be activated in "Individual" mode.

In the GLC 43, the AMG Performance 4MATIC all-wheel drive features a permanent power distribution between the front and rear axles of 31 to 69 percent. The rear-biased configuration provides enhanced dynamic handling, including higher lateral acceleration and improved traction when accelerating. In the GLC 63 S E PERFORMANCE, the AMG Performance 4MATIC+ fully variable all-wheel drive transmits the drive power to the road. The engine torque can be allocated continuously and as required from 50/50 between the front and rear axles up to 100 percent to the rear.

AMG DYNAMICS integrated with AMG DYNAMIC SELECT drive programs

The AMG DYNAMIC SELECT drive programs (five for the GLC 43, eight for the GLC 63 S E PERFORMANCE) enable a wide range of vehicle characteristics from comfortable to dynamic. The distinct driving modes offer an individual driving experience, precisely tailored to different driving conditions.

The integrated "AMG DYNAMICS" driving dynamics control system is added as part of the AMG DYNAMIC SELECT drive programs. This enhances the stabilizing functions of ESP® with interventions to add agility to the steering characteristics and additional ESP® functions. When cornering at speed, for example, brief braking intervention at the inner rear wheel generates a defined yawing moment around the vertical axis for responsive and precise turn-in.

The extent and efficiency of these interventions depend on the AMG DYNAMIC SELECT program selected, whereby the driver can determine the set-up in "Individual" mode. ESP® can be adjusted in three stages. "On" is the standard selection that offers a high level of safety, adapted to the sporty character of the overall vehicle. "Sport" allows higher drift angles, while "Off" allows the system to be switched off completely for use on closed courses and racetracks.

AMG RIDE CONTROL suspension with Adaptive Damping System

Both AMG GLC models are equipped with the AMG RIDE CONTROL steel spring suspension with Adaptive Damping System. It combines sporty driving dynamics with a high level of comfort for long-distance journeys. The basis for this is provided by the front axle, with specially developed steering knuckles and suspension joints on the spring control arm, and by the rear axle, which also features elastokinematics designed for dynamic handling. The Adaptive Damping System continuously adjusts damping at each individual wheel to the current demand – always taking into account the preselected suspension level, driving style and condition of the road surface. In addition to an improvement in ride quality and comfort, this leads, above all, to an increase in driving safety. There is a choice of three different damping maps ("Comfort," "Sport" and "Sport+").

Active roll stabilization equipped standard on GLC 63 S E PERFORMANCE

Another feature makes a decisive contribution to the AMG-specific set-up for high driving dynamics in the GLC 63 S E PERFORMANCE: AMG ACTIVE RIDE CONTROL active roll stabilization. Instead of conventional, rigid anti-roll bars, the system compensates body movements electromechanically. For this purpose, the anti-roll bars on the front and rear axles are divided into two parts. In the center is an electromechanical actuator in which a three-stage planetary gear is integrated. When the road surface is uneven or the driving style is moderate, the actuator actively separates the stabilizer halves, which increases driving comfort. During dynamic driving the halves join together and are twisted against each other.

Moreover, the system not only reduces rolling movements when cornering, but also allows more precise tuning of the steering and load cycle behavior. In addition, it increases ride comfort when driving in a straight line as one-sided road imperfections are balanced out. Movements in the body can be actively and optimally adjusted to the driving conditions. This allows the driver to experience the hallmark AMG driving characteristics in terms of dynamics, precision and feedback even more intensively.

To meet the high power requirements, the system is based on an additional 48-volt on-board subnetwork. Another benefit compared with the usual hydraulic-based systems is the significantly faster response. Added to this is the lower weight of the components compared to hydraulic solutions.

Three-stage AMG speed-sensitive steering and standard rear-axle steering

The steering layout of the Mercedes-AMG GLC models contributes equally to the increase in dynamics and comfort. The three-stage AMG speed-sensitive steering system features a variable steering geometry ratio that adapts to the selected drive program. At high speeds, the steering power assistance decreases; at low speeds it is steadily increased. As a result, comparatively little steering effort is required at low speeds, as well as when maneuvering and parking, while the best possible control over the vehicle is maintained when driving at speed. In the "Sport" and "Sport+" suspension settings, the steering wheel also provides significantly more feedback to the driver.

Active rear-axle steering is also equipped standard. It operates with a maximum steering angle of 2.5°. Up to this point, the rear wheels turn in the opposite direction to the front wheels at speeds of up to 62 mph (variable depending on the AMG DYNAMICS setting). This virtually shortens the wheelbase, which in turn results in significantly more agile turn-in, less steering effort and improved maneuverability. For example, the turning circle is noticeably reduced when turning or parking. At speeds above 62 mph (variable depending on the AMG DYNAMICS setting), the rear wheels turn in parallel to the front wheels – up to a maximum of 0.7°. This virtual extension of the wheelbase has a positive effect on driving stability, leads to a faster build-up of lateral force when changing direction, allowing the vehicle to respond more directly to steering commands. The response of the rear-axle steering depends on the selected AMG DYNAMIC SELECT driving mode.

AMG braking systems

The AMG sports brake system in the GLC 43 provides confident stopping and optimum control. Internally ventilated and perforated brake discs measuring 14.6 x 1.4 inch with 4-piston fixed calipers are fitted to the front axle and 14.2 x 1 inch with 1-piston floating calipers to the rear.

The AMG high-performance composite brake system with 6-piston fixed calipers at the front (15.4 x 1.4 in internally ventilated and perforated brake discs) and 1-piston floating calipers at the rear (14.6 x 1 in internally ventilated and perforated brake discs) is standard on the GLC 63 S E PERFORMANCE. The brake system impresses with short braking distances as well as maximum stability and fade-resistance under heavy use. In addition, it offers a long service life and a particularly fast response.

Numerous equipment packages make the Mercedes-AMG GLC SUV models even more individual

The AMG Night Package features high-gloss black exterior mirror housings, AMG side sill trim inlays, shoulder trim, window surrounds and rear bumper trim. It also includes two black chrome twin tailpipe accents for the AMG exhaust system.

The AMG Night Package Plus adds dark chrome accents to the fins of the radiator grille as well as the badging on the fenders and rear of the vehicle, including the star at the rear.

The AMG Exterior Carbon Fiber Package includes elements in high-quality visible carbon fiber for the A-wing of the AMG front fascia, inserts of the AMG side sill panels and trim strip in the AMG rear fascia.

The AMG Performance Studio Package provides an even sportier look for the GLC 43. The high-gloss black front splitter with flics on the sides and the rear diffuser with diffuser board are a visual nod to motorsport. Furthermore, there are additional flics for the air outlets in the rear fascia in high-gloss black.

#

About Mercedes Benz

Mercedes-Benz USA (MBUSA), headquartered in Atlanta, is responsible for the distribution, marketing and customer service for all Mercedes-Benz products in the United States. MBUSA offers drivers the most diverse lineup in the luxury segment with 18 model lines ranging from the sporty GLA SUV to the flagship S-Class and the dynamic all-electric Mercedes-EQ family. MBUSA is also responsible for Mercedes-Benz Vans in the U.S. More information on MBUSA and its products can be found at www.mbusa.com and www.mbvans.com.

Accredited journalists can visit our media site at www.media.mbusa.com.

Contacts:

Michael Minielly	michael.minielly@mbusa.com
Andrew Brudnicki	andrew.brudnicki@mbusa.com

Technical data

Mercedes-AMG GLC 43 SUV

Engine		
Number of cylinders/arrangement		4/inline
Displacement	cc	1,991
Output	hp	416
at engine speed	rpm	6,750
Torque	lb-ft	369
at engine speed	rpm	5,000
Compression ratio		10.0:1
Mixture formation		Combined direct gasoline injection and intake manifold injection, turbocharging by means of electrically assisted exhaust gas turbocharger
Drivetrain		
Drive system		AMG Performance 4MATIC all-wheel drive with rear-biased torque distribution (39% front : 61% rear)
Transmission		AMG SPEEDSHIFT® MCT 9G (automatic transmission with wet multi-disc start-off clutch)
Gear ratios		
1st/2nd/3rd/4th/5th/6th/7th/8th/9th gear		5.35/3.24/2.25/1.64/1.21/1.00/0.87/0.72/0.60
Reverse		4.80
Suspension		
Front axle	AMG RIDE CONTROL suspension with aluminum double wishbones, anti-squat and anti-dive control, lightweight coil springs and stabilizer bar as well as Adaptive Damping System	
Rear axle	AMG RIDE CONTROL suspension with aluminum double wishbones, anti-squat and anti-dive control, lightweight coil springs and stabilizer as well as Adaptive Damping System, active rear-axle steering	
Braking system	Hydraulic dual-circuit brake system; front 14.6 x 1.4" (370 x 36 mm) brake discs internally ventilated and perforated, 6-piston aluminum fixed calipers; rear 14.2 x 1" (360 x 26 mm) brake discs internally ventilated and perforated, 1-piston aluminum floating calipers; electric parking brake, ABS, Brake Assist, 3-stage ESP®	
Steering	Electromechanical speed-sensitive power steering with rack and pinion system, variable steering ratio (12.8:1 at center) and variable power assistance	
Standard wheel size	front: 9.5J x 20 ET 32, rear: 10.0J x 20 ET 24	
Standard tire size	front: 265/45 R20; rear 295/40 R20	
Dimensions		
Wheelbase	in	113.7
Front/rear track	in	65.6/65.6
Length/width w/o mirrors/height	in	187/75.6/64.4
Turning circle – wall-to-wall	ft	42.3
Cargo capacity	cu-ft	21.9–59.3
Curb weight	lbs	TBA
Tank Fuel tank capacity	gal	16.4
Performance		
Acceleration 0-60 mph	s	4.7 (est)
Top speed	mph	155 (electronically limited)

Technical data

Mercedes-AMG GLC 63 S E PERFORMANCE SUV

Hybrid system		
Layout		P3: combustion engine in the front, electric motor at rear axle
System output	hp	671
System torque	lb-ft	752
Energy capacity	kWh	6.1
Electric range	mi	TBA
Combustion engine		
Number of cylinders/arrangement		4/inline
Displacement	cc	1,991
Output	hp	469
at engine speed	rpm	6,750
Torque	lb-ft	402
at engine speed	rpm	5,250–5,500
Compression ratio		9.0:1
Mixture formation		Combined direct gasoline injection and intake manifold injection, turbocharging by means of electrically assisted exhaust gas turbocharger
Electric motor		
Type		Permanently excited synchronous motor
Output	hp	201
Torque	lb-ft	236
Drivetrain		
Drive system		Fully variable AMG Performance 4MATIC+ all-wheel drive
Transmission		AMG SPEEDSHIFT® MCT 9G (automatic transmission with wet multi-disc start-off clutch)
Gear ratios		
1st/2nd/3rd/4th/5th/6th/7th/8th/9th gear		5.35/3.24/2.25/1.64/1.21/1.00/0.87/0.72/0.60
Reverse		4.80
Suspension		
Front axle	AMG RIDE CONTROL suspension with aluminum double wishbones, anti-squat and anti-dive control, lightweight coil springs and stabilizer as well as Adaptive Damping System, active roll stabilization	
Rear axle	AMG RIDE CONTROL suspension with aluminum double wishbones, anti-squat and anti-dive control, lightweight coil springs and stabilizer as well as Adaptive Damping System, active roll stabilization, active rear-axle steering	
Braking system	Hydraulic dual-circuit brake system; front 15.4 x 1.4" (390 x 36 mm) brake discs internally ventilated and perforated, 6-piston aluminum fixed calipers; rear 14.6 x 1" (370 x 26 mm) brake discs internally ventilated and perforated, 1-piston aluminum floating calipers; electric parking brake, ABS, Brake Assist, 3-stage ESP®	
Steering	Electromechanical speed-sensitive power steering with rack and pinion, variable steering ratio (13.1:1 at center) and variable power assistance	
Standard wheel size	front: 9.5J x 20 ET 32 rear: 10.0J x 20 ET 24	
Standard tire size	front: 265/45 R20; rear: 295/40 R20	
Dimensions		
Wheelbase	in	113.7
Front/rear track	in	64.8/64.8

Length/width w/o mirrors/height	in	187/75.6/64.4
Turning circle	ft	42.3
Cargo capacity	cu-ft	16.6-54
Curb weight	lbs	TBA
Fuel tank capacity	gal	17.2
Performance		
Acceleration 0-60 mph	s	3.4 (est)
Top speed	mph	171 (electronically limited)