

**Model 166.8**  
**as of model year 2016 up to model year 2017**

**Introduction and overview**

The vehicle celebrated its European market launch in 2012. In December 2015, the conversion to the new facelift will be implemented in production, which shall then develop the vehicle further in terms of selected properties to ultimately enhance its appeal, while also improving the benefit to the customer. At the same time, the model designation will be changed from GL to GLS. The new name for a GL 350 BlueTEC 4MATIC, for example, will then be GLS 350 d 4MATIC Off-Roader. The main points from the customer and communication-relevant measures are as follows:

- Design
  - Striking front design
  - Dynamic design that emphasizes width
  - Outstanding high-class appeal along with a feel-good ambience created through selection of form, color and material in the interior
- Safety and driver assistance systems
  - Driving Assistance package of 3rd generation
  - Parking package with 360° camera
  - Traffic Sign Assist as evolution of previous Speed Limit Assist
- Information, multimedia and communications systems
  - New telematics generation NTG 5 Star 1
  - New display and operating concept
  - Central free standing display with high resolution and greater awareness of functions through images
- Touchpad
- Drive
  - Optimization of engines with emphasis on reducing consumption and emissions
  - Conversion to 9-speed automatic transmission 9G-TRONIC
- Bodywork
  - LED headlamps
  - Intelligent Light System
  - MAGIC VISION CONTROL
  - New model name
- Suspension, steering and brakes
  - Even more comfortable air suspension with ADS
  - DYNAMIC SELECT
- Interior equipment
  - Air quality package





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## Exterior

The aim of the GLS facelift is to highlight yet further the elegance and significance of the vehicle, to ultimately lend it an even more pronounced appearance. This is achieved through diverse elements in the current Mercedes-Benz design language "Sensual Purity".

The emphasis in the exterior is placed on a distinctly modified front view with significant new components such as the bumpers, radiator trim, headlamps and the engine hood. In the rear area, the lower section of the bumper contains the exhaust tips and chrome trim parts adapted to meet the current Mercedes-Benz design language. The exterior contour of the rear lamp remains unchanged, although the location of the individual components has been extensively modified, which in turn guarantees a tangible difference, in particular, in the night design.

In the interior, along with new colors & trim components (equipment colors/trim pieces), the new upper part of the instrument panel, in particular, as well as the new-look dials should be highlighted.

### Front view

The new front view of the GLS lends the vehicle greater presence and dominance. This is achieved by a steeply positioned radiator trim along with a starkly accentuated bumper, which breaks up the horizontal emphasis. The star merges with the two horizontal slats in the new radiator trim, thus accentuating the significant three-dimensional feature of the component. The fog lamp recesses located below the headlamps are now vertically instead of horizontally aligned, and by being so they amplify the differentiation in the front view.

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### Page view

The GLS comes with two new wheel designs in sizes 19 and 20 inch.

### Rear view

The components in the rear lamp have been redesigned and as such they now present a night design that reveals the GLS to be without any shadow of a doubt a Mercedes.

The lower section of the rear bumper has been redesigned, whereupon the form of the chrome-plated look of the underbody protection, in particular, incorporates the topic of the front bumper. The trapezoidal exhaust tips integrated into the bumper enables a standard finish to be achieved with the exterior design.



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### Interior

The interior of the GLS has been clearly modernized by the facelift and further upgraded in many details. The immediately striking difference is the redesigned upper section of the instrument panel with its clearly enlarged display.

New equipment colors and trim pieces also help to meet the customer's request for greater individualization.

The thin, chrome surround on the display (as special equipment) consciously recalls particularly high-quality devices from the world of the PC and mobile phone markets, while also demonstrating that the GLS is up-to-date in every respect.

This impression is enhanced by the exceedingly detailed, new dials on the instrument cluster.

### Technik

Driver assistance systems and active safety

These are:

- COLLISION PREVENTION ASSIST PLUS
- DISTRONIC PLUS
- DISTRONIC PLUS with Steer Assist and Stop & Go Pilot
- Brake Assist System PLUS with Intersection Assist
- PRE-SAFE® brake with pedestrian detection
- Lane Keeping Assist
- Active Lane Keeping Assist
- Blind spot assist
- Active Blind Spot Assist
- Adaptive Highbeam Assist Plus
- Active Park Assist
- Backup camera

DYNAMIC SELECT transmission mode selector switch and associated transmission modes

The DYNAMIC SELECT system includes the DYNAMIC SELECT switch and the associated transmission modes. The system is available as standard equipment.

For the driver, the DYNAMIC SELECT switch is the more important and more visible element of the DYNAMIC SELECT package.

Depending on the equipment installed, various transmission modes that determine the handling characteristics can be called up. The DYNAMIC SELECT switch in the center console allows the driver to choose between one customized ("Individual") and various preconfigured transmission modes. Depending on equipment installed,

### Steering wheel

For its e facelift, the GLS has been given a new three-spoke steering wheel, which through its high-quality design of the controls demonstrates to the driver that he is driving a vehicle of supreme quality

### Door trim

Next to the new cover designs and colors, the operating unit for the seat adjustment, as is the case with other control, is also set in a narrower chrome frame.

The driver assistance systems and the elements involved in active safety can help the driver - because of the associated relief function - to maintain high concentration, fitness and performance levels, which ultimately enable the driver to master difficult situations. New or enhanced systems ensure the best possible driving and stress-reducing safety.

The GLS facelift introduces new driver assistance systems while previously available equipment has been further optimized.

- 360° camera system
- Traffic Sign Assist
- Cruise control with SPEEDTRONIC
- ATTENTION ASSIST
- Tire pressure monitor
- Crosswind Assist
- Steering assistance system
- ADAPTIVE BRAKE and management system
- ESP® Dynamic Cornering Assist
- PRE-SAFE® PLUS
- LED Intelligent Light System
- Adaptive brake lights
- Airbag deactivation

- Comfort
- Sport
- Slippery conditions
- Off-road (only with 4MATIC)
- Off-road + (only with ON & OFF-ROAD package special equipment)

- Individual, for customization, e.g. of the steering, suspension, drive train (engine and transmission) etc.

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#### ADS PLUS

ADS PLUS is a fully automatic, electronically controlled system that adjusts the damping force at each wheel to the current requirement. In comparison to a passive system with constant damper adjustment, the vehicle and the wheels are ideally adapted under every driving condition so that any impairments in comfort caused by an excessively high damping characteristic can be avoided.

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#### 9G-TRONIC transmission

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#### MAGIC VISION CONTROL

The GLS Class is available with the innovative washing system MAGIC VISION CONTROL as special equipment; this system is already offered in other Mercedes-Benz model series.

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#### Instrument cluster

The following details have been visually redeveloped on the instrument cluster for the GLS facelift as for the GLE-Class.

- Dynamic pointer
- Pointer illumination in red

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#### New device generation NTG 5 Star 1

The GLS facelift - as with the GLE - sees the new telematics generation NTG 5 Star 1.

The following multimedia systems are available as standard or as special equipment:

- Audio 20 CD with single CD, standard equipment
- Audio 20 CD navigation system with single CD and navigation preinstallation, special equipment

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#### Exterior lights

As from the facelift, bulbs will only be used in the standard headlamps, i.e., all lighting functions are now realized through the special equipment "Dynamic LED headlamp" using LED technology. The use of LED technology also enables plastic lenses to be used that in turn provide new creative options for the purpose of vehicle design.

#### Off-road light

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The resolution of any trade-offs between ride comfort and vehicle dynamics is made noticeable for the customer through the improved body stabilization coupled with optimized ride comfort. The "feeling of driving safety" at high speeds is significantly enhanced by the continuous adaptation of the dampening to match the vehicle speed and driving-situation.

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The 9G-TRONIC is the new automatic transmission with torque converter from Mercedes-Benz and replaces the predecessor generation 7G-TRONIC PLUS. The transmission is the world's first 9-speed automatic transmission in the premium segment for longitudinal drive architecture. This is an in-hose development by Mercedes-Benz and it is produced at the site in Stuttgart-Hedelfingen.

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The washer system consists of the familiar fully heated, semi-autonomous washing system MAGIC VISION CONTROL including flat-type wiper blades.

The quantity of washer fluid is adapted to the respective driving situation on the basis of several ambient conditions, such as outside temperature, vehicle speed and length of actuation. Furthermore, the amount of fluid is actively reduced when driving with open panoramic roof in order to avoid, where possible, any ingress of washer fluid into the vehicle interior.

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- Dial face layout (new font, different scale graduation marks, trim impression in indicator lamp area, red scale graduation marks at 30 and 50 km/h)
  - Chamfered ring around the speedometer and tachometer with precision scaling
  - Concentric rings

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- COMAND Online with single DVD (special equipment)
  - COMAND Online with DVD changer (special equipment)

Introduction of LTE cellular telephone system standard

With the facelift for the GLS and the adaptation of the telephone antenna, the customer can now enjoy the Long Term Evolution (LTE) cellular telephone system standard.

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During off-road driving as wide a range of lighting as possible is advantageous to enable obstacles to be detected, including when cornering. Therefore, in combination with the ON & OFF-ROAD package special equipment, a special light package is now also available. When the transmission mode "Off-road +" is activated the off-road light is switched on. To do so, the LED headlamp modules are swiveled outwards by 6°. A symmetrical light distribution is then set. The LED cornering lights are then permanently activated and the dynamic active curve illumination function and headlamp range adjustment are deactivated.

The off-road light is active up to 50 km/h. At speeds in excess of this, the function is automatically switched off and reset to the standard values for road usage. When the manual high beams are switched on, the headlamp modules move back to their center position. When the headlamp flasher is operated, the swivel drives are positioned at -6°.

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The ionizer is integrated into the air duct of the driver side air vent in the instrument panel. This uses high voltage to ionize the air in the air duct. The ionization is only active when the flow rate is greater than 1 m/s.

Ionized oxygen molecules can inactivate certain viruses, bacteria and spores, and therefore exert a positive influence to help enhance the well-being of the vehicle occupants.

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The remote start function is available ex-factory as special equipment for the USA, Canada and China markets. This function makes it possible to start the engine and to activate the climate settings that were last used before the engine was switched off. This requires a mobile phone and an appropriate contract with a service provider.

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The facelift gives the GLS, as previously with the GLE in the ECE version, a fully-electric trailer hitch. The version for NAFTA countries remains unchanged. A function for vehicle/trailer stabilization when swerving threatens to occur is still integrated into the ESP® as previously the case for standard equipment.

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#### Air quality package

An air quality package with ionizer and filter components is available as special equipment. New to this is a filter with an anti-allergenic function.

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#### Pre-entry climate control with remote start

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#### Fully-electric trailer hitch

<b>Engine variants: MODEL</b>	<b>Engine / engine model designation</b>	<b>Rated output</b>	<b>Transmission (standard)</b>
GLS 350 d 4MATIC Off-roader	642.826	190 kW	725.031
GLS 400 4MATIC Off-roader	276.821	245 kW	725.031
GLS 450 4MATIC Off-roader	276.821	270 kW	725.031
GLS 500/550 4MATIC Off-roader	278.928 278.912 (China)	335 kW 310 kW (China)	725.031
Mercedes-AMG GLS 63 S 4MATIC Off-roader	157.982	430 kW	722.905