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CLA Mercedes-AMG Supplement

Mercedes-Benz



## Publication details

#### Internet

Further information about Mercedes-Benz vehicles and about Mercedes-Benz AG can be found on the following websites:

https://www.mbusa.com (USA only)

https://www.mercedes-benz.ca (Canada only)

## Documentation team

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## Vehicle manufacturer

Mercedes-Benz AG

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Germany

### Thank you for purchasing a Mercedes-AMG

Before you first drive off, read this Operator's Manual carefully and familiarize yourself with your vehicle. For your own safety and a longer operating lifespan of the vehicle, follow the instructions and warning notices in this Operator's Manual. Disregarding them may lead to damage to the vehicle or injury to people.

Damage to the vehicle resulting from the disregard of the instructions is not covered by the Mercedes-Benz Limited Warranty.

The standard equipment and product description of your vehicle may vary and depends on the following factors:

- Model
- Order
- · National version
- Availability

Your vehicle may therefore differ, in individual cases, from that shown in the descriptions and illustrations.

Mercedes-AMG reserves the right to introduce changes in the following areas:

- Design
- Equipment
- · Technical features

The following documents are integral parts of the vehicle:

- · Digital Operator's Manual
- Printed Operator's Manual
- · Maintenance Booklet
- · Equipment-dependent supplements
- Supplementary documents

Keep these documents in the vehicle at all times. Ensure that all documents are in the vehicle or passed on in the event of sale or rental.

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In this Operator's Manual, you will find the following symbols:

**WARNING** Danger due to not observing the warning notices

Warning notices draw your attention to hazards that may endanger your health or life, or the health or life of others.

Observe the warning notices.

ENVIRONMENTAL NOTE Environmental damage due to failure to observe environmental notes

Environmental notes include information on environmentally responsible behavior or environmentally responsible disposal.

Observe environmental notes.

NOTE Damage to property due to failure to observe notes on material damage

Notes on material damage inform you of risks which may lead to your vehicle being damaged.

Observe notes on material damage.

(i) These symbols indicate useful instructions or further information that could be helpful to you.

Instruction

(→ page) Further information on a topic

Display

Display field in the Instrument Display/media display



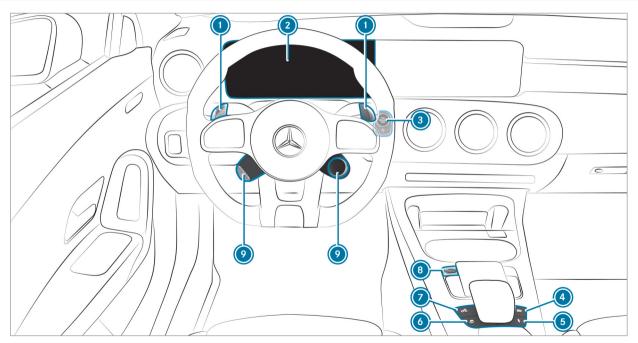
Highest menu level, which is to be selected in the multimedia system



Relevant submenus, which are to be selected in the multimedia system

Indicates a cause

## 4 At a glance - Cockpit



Left-hand-drive vehicles

	Steering wheel paddle shifters	$\rightarrow$	11	5 <b>\$</b> AN
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#### Operator's Manual

This Supplement provides information on all the important functions of your AMG vehicle that are either not described or differ from the descriptions in the Operator's Manual. This information supplements or replaces the corresponding sections in the vehicle Operator's Manual. Under no circumstances does the Supplement replace the printed vehicle Operator's Manual and the Digital Operator's Manual in the vehicle.

This Supplement and the Digital Operator's Manual in the vehicle describe the following models, standard and special equipment of your vehicle:

- Models, standard and special equipment available at the time of going to press with this Supplement.
- Models, standard and special equipment that are only available in certain countries.
- Models, standard and special equipment that will not be used until a later date.

Note that your vehicle may not be equipped with all features described. This also applies to safety-relevant systems. Therefore, the equipment on

your vehicle may differ from that in the descriptions and illustrations.

The purchase agreement for your vehicle list the equipment included in your vehicle at the time of delivery.

Should you have any questions concerning equipment and operation, please consult an authorized Mercedes-Benz Center.

The Operator's Manual, Supplements, any supplementary documents, and Maintenance Booklet are important documents and should be kept in the vehicle.

#### Seat belts

## Limitations of the protection provided by the seat belt

The AMG sports seat and the AMG Performance seat are designed for the standard three-point seat belt. If you install a different multipoint seat belt, for example a four-point seat belt, the restraint system cannot provide the intended level of protection.

Depending on the type of vehicle, there may be openings in the seat backrest. These openings have no function.



**WARNING** Risk of injury or fatal injury due to modified seat belt systems

If you feed seat belts through the opening in the seat backrest, the seat backrest may be damaged or may even break in the event of an accident.

- Only use the standard three-point seat belt.
- Never modify the seat belt system.

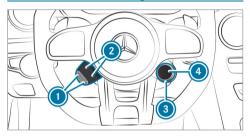
#### Airbags

### Protection provided by the side airbag

Vehicles with AMG Performance seat: depending on the accident situation, the side airbag can increase the level of protection for the ribcage of the respective passenger in addition to a correctly fastened seat belt.

## Driving

Function of the AMG steering wheel buttons



The AMG steering-wheel buttons are two additional control elements on the steering wheel.

You can assign two vehicle functions of your choice to the left control element. You can change between the available functions by pressing display buttons ② repeatedly. The currently selected function is shown in display buttons ②.

The following functions are available:

 $\blacksquare$  ESP<sup>®</sup>( $\rightarrow$  page 12)

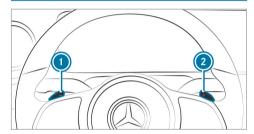
- AMG adaptive sport suspension system (→ page 18)
- $\bigcirc$  AMG exhaust system ( $\rightarrow$  page 9)
- Manual gearshifting (→ page 11)
- AMG Dynamics (→ page 9)
- ECO start/stop function (see the vehicle operator's manual)

If you have assigned a function to one of display buttons ②, you can operate this function with corresponding button ①.

The assignment of display buttons **②** remains stored even after a new engine start, but the operating status of the respective function is reset to the basic setting.

You can change between the drive programs with control knob ③. The selected drive program appears in the display button ⑥. By pressing display button ⑥, you can directly access the drive program ( $\rightarrow$  page 9).

## Function of the Emotion Start (Mercedes-AMG vehicles)



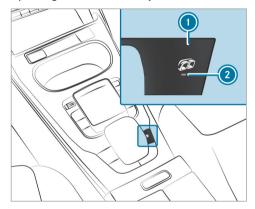
Start the vehicle with the start/stop button and simultaneously pull one of the steering wheel gearshift paddles ① or ②.

The idle speed is briefly increased upon starting the engine, and in the sporty characteristic (powerful) the engine sound is reproduced.

Follow the instructions for starting the vehicle in the vehicle operator's manual.

#### AMG exhaust system

#### Operating the AMG exhaust system



Press button ①.
 The sporty characteristic (Powerful) is selected when indicator lamp ② lights up.

#### DYNAMIC SELECT switch

## Function of the DYNAMIC SELECT switch (Mercedes-AMG vehicles)

Use the DYNAMIC SELECT switch to change between the following drive programs.

The drive program selected appears in the instrument display.

## Slippery

Optimized pulling away and driving characteristics in wintry and slippery road conditions

#### **C** Comfort

- · Comfortable driving style
- Balance between traction and stability
- Recommended for city driving and stop-andgo traffic

#### Individual

· Individual settings

#### S Sport

- Sporty driving characteristics
- Balance between stability and sportiness

 Only suitable for good road conditions, a dry road surface and a clear stretch of road

#### S+ Sport+

- · Particularly sporty driving characteristics
- Accentuates the vehicle's own understeering and oversteering characteristics
- Only suitable for good road conditions, a dry road surface and a clear stretch of road

### Race

- Racetrack-oriented driving characteristics
- All vehicle systems set for maximum sportiness
- Particularly firm suspension tuning of the AMG adaptive sport suspension system
- · Must not be used on public roads
- Only suitable for use on cordoned off race circuits
- The drive program S is available only for the Mercedes-AMG CLA 45 S 4MATIC+ model and vehicles with AMG DYNAMIC PLUS package.

#### 10 Driving and parking

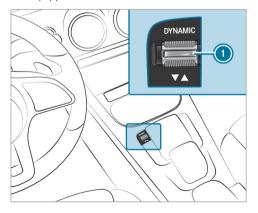
Depending on the drive program selected, the following vehicle characteristics will change:

- Drive
- AMG Dynamics
  - The agility functions are automatically selected depending on the drive program.
  - The steering, shift timing point, drive and stabilization functions are adapted to the selected drive program.
  - When ESP<sup>®</sup> is activated, agility function Pro is selected in drive program [\vec{\mathbb{X}}]. The Master function is automatically selected when ESP<sup>®</sup> is deactivated.
- Characteristic of the exhaust system
- · Suspension tuning
- · Availability of Glide mode
- 4MATIC+ all-wheel drive
- You can change the following vehicle characteristics using the buttons in the center console:
  - · Characteristic of the exhaust system

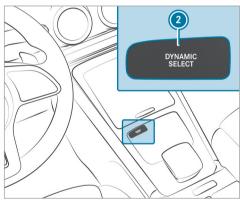
- Suspension tuning of the AMG adaptive sport suspension system
- FSP®

#### Selecting the drive program

(i) Depending on the equipment, the vehicle is equipped with either a switch or a button.



 Press DYNAMIC SELECT switch forwards or backwards.
 The drive program selected appears in the instrument display.



Press DYNAMIC SELECT button ②. The DYNAMIC SELECT menu appears in the instrument display.

Press DYNAMIC SELECT button 2 again. The chosen drive program appears.

#### Configuring DYNAMIC SELECT (multimedia system)

Multimedia system:

→ Settings → Vehicle >> DYNAMIC SELECT

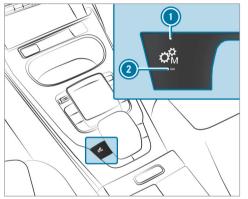
#### Setting drive program I

- Select Individual Configuration.
- Select and set a category.

#### Switching the restoration display on or off

- Activate or deactivate Request at Start.
- (i) The prompt appears only if the previously active settings deviate from the standard settings.

## Automatic transmission Manual shifting (Mercedes-AMG vehicles)



- To activate / deactivate: Press button 1. If indicator lamp (2) is lit, manual shifting is activated. The current gear is displayed in the instrument display.
- (i) To permanently shift the gears manually in drive program using the steering wheel

paddle shifters, select the M (Manual) setting for the transmission

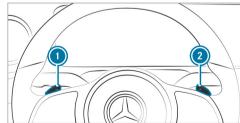
#### Shifting up and down

NOTE Damage to the engine due to shifting up too late

The automatic transmission does not shift up in manual mode even when the engine's limiting speed is reached.

The fuel supply is interrupted in order to prevent the engine from overrevving.

Shift up before the engine speed reaches the red area in the tachometer.



#### 12 Driving and parking

- To shift up: Pull steering wheel paddle shifter

  2.
- To shift down: Pull steering wheel paddle shifter (1).



If the engine speed is too high or too low, you cannot change gear using the steering wheel paddle shifters. In this case, segments light up red.

## Function of the glide mode (Mercedes-AMG vehicles)

With an anticipatory driving style, Glide mode helps you to reduce fuel consumption.

Glide mode is characterized by the following:

- The combustion engine is disconnected from the drivetrain and the vehicle continues to roll.
- The symbol appears in the instrument display.

Glide mode is activated if the following conditions are met:

- ECO start/stop function is switched on.
- Drive program is selected with the drive setting "Moderate" or "Reduced".
- The speed is within a suitable range.
- The road's course is suitable, e.g. no steep uphill or downhill inclines or tight curves.
- You are no longer depressing the accelerator or brake pedal.

Glide mode is deactivated again if one of the conditions is no longer met.

#### Driving and driving safety systems

### Function of ESP® (Mercedes-AMG vehicles)

You can select between the following modes of the Electronic Stability Program (ESP®):

- ESP® ON
- ESP® SPORT
- ESP® OFF

#### Characteristics when ESP® is activated

ESP® monitors and improves driving stability and traction, particularly in the following situations:

- When pulling away on wet or slippery road.
- · When braking.
- When there is a strong crosswind and a driving speed of approximately 47 mph (75 km/h) to 125 mph (200 km/h).

ESP® can stabilize the vehicle by intervening in the following ways:

- · One or more wheels are braked.
- The engine output is adapted according to the situation.

ESP® is activated every time the vehicle is started regardless of whether ESP® was in ESP® SPORT or deactivated before the vehicle was switched

If the SP® warning lamp flashes in the instrument cluster, one or several wheels has reached its grip limit:

- Adapt the driving style to suit the prevailing road and weather conditions.
- Do not deactivate ESP® under any circumstances.
- Only depress the accelerator pedal as far as necessary.

### Characteristics of ESP® SPORT

WARNING Risk of skidding if ESP® SPORT is used incorrectly

When you activate ESP® SPORT, there is an increased risk of skidding and having an accident.

Activate ESP® SPORT only in the circumstances described below.

When ESP® SPORT is activated, the 👢 and ESP SPORT warning lamps light up continuously in the instrument cluster

Select FSP® SPORT when the vehicle's own oversteering and understeering characteristics are desired, e.g. on cordoned-off roads.

Driving with ESP® SPORT or with ESP® deactivated requires an extremely qualified and experienced driver.

If FSP® SPORT is activated and one or more wheels start to spin, the SP® warning lamp on the instrument cluster flashes. ESP® then only stabilizes the vehicle to a limited degree.

ESP® SPORT also has the following characteristics:

- ESP® only improves driving stability to a limited degree.
- ETS/4ETS traction control is still active.
- The engine's torque is only restricted to a limited degree and the drive wheels can spin.

The spinning of the wheels results in a cutting action for better traction on loose surfaces.

- ESP® continues to provide assistance when the brakes are firmly applied.
- Crosswind Assist is no longer active.

#### Characteristics when ESP® is deactivated

**WARNING** Risk of skidding if ESP® is deactivated

If you deactivate ESP®, ESP® cannot carry out vehicle stabilization

► ESP® should only be deactivated in the following situations.

When ESP® is deactivated, the R and ESPOFF warning lamps light up continuously in the instrument cluster.

Deactivating ESP® has the following effects:

- · Driving stability will no longer be improved.
- The drive wheels could spin.
- ETS/4ETS traction control is still active.
- Crosswind Assist is no longer active.

#### 14 Driving and parking

(i) Even when ESP® is deactivated, you are still assisted by ESP® when braking hard.

It may be best to activate ESP® SPORT or deactivate ESP® in the following situations:

- · When using snow chains.
- In deep snow.
- · On sand or gravel.
- (i) Spinning the wheels results in a cutting action, which enhances traction.
- (i) Activate ESP® as soon as the situations described above no longer apply. ESP® will otherwise not be able to stabilize the vehicle if the vehicle starts to skid or a wheel starts to spin.

If the  $\begin{tabular}{l} ESP^{@} \end{tabular}$  warning lamp lights up continuously,  $ESP^{@}$  is not available due to a malfunction.

Observe any information which is displayed in the instrument cluster:

- · Indicator and warning lamps
- Display messages

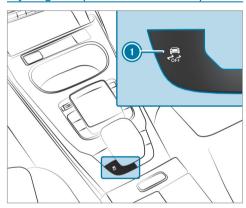
#### ETS/4ETS (Electronic Traction System)

ETS/4ETS traction control is part of ESP®.

ETS/4ETS can improve the vehicle's traction by intervening in the following ways:

- The drive wheels are braked individually if they spin.
- More drive torque is transferred to the wheel or wheels with traction.

#### Adjusting ESP® (Mercedes-AMG vehicles)



- To activate ESP® SPORT: briefly press button
  - The and warning lamps appear in the instrument cluster.
- To deactivate ESP®: press and hold button 
  until the half and ESPOFF warning lamps appear in the instrument cluster.

- i) When you deactivate ESP® in the Mi drive program, AMG Dynamics automatically switches to the Master level.
- To activate ESP®: briefly press button ①. The 👼 . ESP SPORT and ESP OFF warning lamps go out.

Observe the information on warning lamps and display messages which are shown in the instrument cluster.

## Activating/deactivating ESP® (Electronic Stability Program)

Multimedia system:

- → Settings → Quick Access
- (i) ESP® can only be activated/deactivated using guick access when at least one other function is available in quick access. ESP® can otherwise be found in the Assistance menu.
- Select ESP.
- Select On or \sum\_ Off.

ESP® is deactivated if the ESP® OFF warning lamp lights up continuously in the instrument cluster

Observe the information on warning lamps and display messages which may be shown in the instrument cluster

#### RACE START

#### Information on RACE START

RACE START enables optimal vehicle acceleration from a standstill. For this, a suitably high-grip road surface is required, the tires and vehicle must also be in good condition.

RACE START is only available after the vehicle has been broken in.

(i) RACE START may not be used on normal road operation. RACE START must only be activated and used on dedicated race circuits, not on public roads.

Read the safety notes and information on  $ESP^{\mathbb{R}} (\rightarrow page 12).$ 

**A WARNING** Risk of skidding and having an accident from wheels spinning

If you use RACE START, depending on the ESP® mode selected, there is an increased risk of skidding and having an accident.

Make sure that no persons or obstacles are in the close vicinity of your vehicle.

### Activating RACE START

#### Requirements:

- The driver's door is closed
- The engine is running and the transmission and engine are at normal operating temperature.
- The steering wheel is in the straight-ahead position.
- The vehicle is on level ground.
- The vehicle is stationary, the brake pedal is depressed (left foot) and the parking brake is released.
- One of the drive programs S, S or is selected ( $\rightarrow$  page 9).

#### 16 Driving and parking

Rapidly depress the accelerator pedal fully. The engine speed increases. The RACE START Release brake to start message appears in the instrument display. If the activation conditions are not fulfilled,

If the activation conditions are not fulfilled, RACE START cannot be activated. The RACE START Not Possible See Operator's Manual message appears in the instrument display.

- i Mercedes-AMG CLA 45 4MATIC+ and CLA 45 S 4MATIC+: in this phase you can adjust RACE START depending on the road conditions: you can vary the engine speed by pulling on one of the steering wheel paddle shifters. The segments in the instrument display flicker rapidly.
- (i) If the brake pedal is not released after a short while, RACE START is canceled. The RACE START Canceled message appears in the instrument display.
- Take your foot off the brake, but keep the accelerator pedal depressed. The vehicle pulls away at maximum acceleration. The RACE START Active message appears in the instrument display.

RACE START is deactivated immediately if you release the accelerator pedal during RACE START or if any of the activation conditions are no longer fulfilled. The RACE START Canceled message appears in the instrument display.

(i) After using it several times in short succession, RACE START is unavailable until a certain distance has been driven.

#### **DRIFT MODE**

#### Functions of DRIFT MODE

 DRIFT MODE is available only for the Mercedes-AMG CLA 45 S 4MATIC+ model or for vehicles with AMG DYNAMIC PLUS package.

DRIFT MODE enables intentional unstable movement (drifting) and oversteering driving condition of the vehicle. All activation conditions must be fulfilled for this ( $\rightarrow$  page 17).

 Only a highly qualified and experienced driver should drive in DRIFT MODE.
 Read the safety notes and information on ESP<sup>®</sup> (→ page 12). WARNING Risk of skidding and having an accident from wheels spinning

When you use DRIFT MODE, ESP® is not available.

There is an increased risk of skidding and having an accident.

- Do not use DRIFT MODE on normal roads.
- DRIFT MODE may only be activated and used on closed race circuits, not on public roads.
- Make sure that no persons or obstacles are in the close vicinity of your vehicle.

From a speed of approximately 75 mph (120 km/h) up to 100 mph (160 km/h) DRIFT MODE is continuously deactivated. From a speed of 100 mph (160 km/h) DRIFT MODE is fully deactivated, but ESP® remains switched off. Below a speed of 100 mph (160 km/h) up to approximately 75 mph (120 km/h) DRIFT MODE is continuously activated.

(i) DRIFT MODE is only available after the vehicle has been broken in

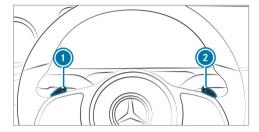
#### Activating and deactivating DRIFT MODE

#### Requirements:

- ESP<sup>®</sup> is deactivated (→ page 14).
- Drive program  $\bowtie$  is selected ( $\rightarrow$  page 9).
- The doors, the hood and the trunk lid/tailgate are closed
- The vehicle is started and the transmission and the engine are at normal operating temperature.
- The transmission is in manual mode manual shifting is activated ( $\rightarrow$  page 11).

#### Activating DRIFT MODE

You can activate DRIFT MODE at a speed of up to 60 mph (99 km/h).



- ▶ Pull steering wheel gearshift paddles **(1)** and and hold for half a second. If all activation conditions are fulfilled, the instrument display shows the message DRIFT MODE Confirm: Paddle UP Cancel: Paddle **DOWN** and the warning lamp **DRIFT** flashes.
- To cancel: pull steering wheel gearshift paddle

The instrument display shows the message DRIFT MODE Canceled and the warning lamp **DRIFT** goes out.

To confirm: pull steering wheel gearshift paddle 🙉.

The instrument display shows the message DRIFT MODE Active and the warning lamp **DRIFT** lights up.

#### Deactivating DRIFT MODE

Pull steering wheel gearshift paddles 1 and and hold for half a second. The message DRIFT MODE Active and the

warning lamp **DRIFT** go out. DRIFT MODE is automatically deactivated in the following situations:

- FSP® is activated.
- Manual shifting is deactivated the gearbox is in position **D**.
- The drive program [ is switched off.
- The vehicle is switched off.
- (i) After drifting and before continuing the journey, check the wheels and tires for damage. In particular, check the tire tread depth and tire contact surface over the entire width of the tires (see the vehicle Operator's Manual).

### AMG adaptive sport suspension system

#### Function of AMG adaptive sport suspension system

AMG adaptive sport suspension system is an electronically controlled damping system for improved driving comfort and increased driving safety.

The damping is adjusted individually to each wheel and depends on the following factors:

- · Driving style, e.g. sporty
- · Road condition, e.g. bumps
- The individual selection of SPORT, SPORT + or COMFORT

The suspension setting is dependent on the drive program selected via the DYNAMIC SELECT switch.

In addition, you can select the mode in every drive program individually via the AMG adaptive sport suspension system button in the center console. After a drive program is changed, the automatic suspension setting of the drive program is reactivated.

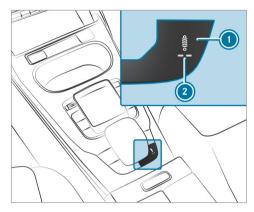
(i) When the vehicle is started again, the **COM**-**FORT** setting is activated automatically.

#### Selecting the AMG adaptive sport suspension system setting

In "Comfort" mode, the driving characteristics of vour vehicle are comfortable. Select this suspension setting if you prefer a comfortable driving style.

"Sport" driving mode ensures a firmer suspension setting. Select this suspension setting when employing a sporty driving style, e.g. on winding country roads.

"Sport Plus" driving mode ensures a very firm suspension setting.



Press button 1 repeatedly until the selected setting is displayed.

Depending on the number of indicator lamps 2 lit up, the following suspension setting is selected:

- 0 "Comfort" suspension setting
- 1 "Sport" suspension setting
- 2 "Sport Plus" suspension setting

The currently selected suspension setting is shown as a display message in the media display.

Additional notes regarding your Mercedes-AMG vehicle:

- Additional note regarding the indicator and warning lamps: the vehicle is also equipped with the ESP<sup>®</sup> ₱, ESP<sup>®</sup> OFF ₱ and ESP<sup>®</sup> SPORT proper indicator and warning lamps (→ page 38).

You can select the following display content, for example:

- · Tachometer with gear display
- · Date and time
- Warm-up
- AMG TRACK PACE
- G-meter
- Engine data

- SETUP
- · Trip computer
- Navigation
- Media
- Telephone

AMG TRACK PACE is displayed on the left-hand section of the display. The warm-up, engine data, SETUP and G-meter menus are displayed on the right-hand section of the display.

## Calling up displays on the Performance menu

On-board computer:

**→** Performance

➤ To select a display: swipe upwards or downwards on the left-hand Touch Control.

Displays on the Performance menu:

- Warm-up
- Engine data
- SFTUP
- G-meter



Warm-up (example)

- Digital speedometer
- 2 Engine oil temperature
- 3 Transmission oil temperature
- Boost pressure

If the engine or transmission is not at normal operating temperature, the instrument display will

show temperature ② or ③ in blue. Avoid using the full engine power output during this time.



Engine data (example)

- Current power output
- Current torque

When current power output ① or current torque ② reaches the maximum value, the digital value will briefly be stationary. The bar display will continue.



SETUP in Mercedes-AMG vehicles (example)

- Drive system setting: Reduced/Moderate/Sport/Dynamic
- Transmission position:D/M
- AMG DYNAMICS:
   Basic/Advanced/Pro/Master
- Suspension tuning: Comfort/Sport/Sport+
- (5) Exhaust system: Balanced/Powerful

#### Resetting the G-meter

While the vehicle is in motion, the G-meter shows the forces that are exerted on the vehicle occupants both laterally and in the direction of travel. The maximum values are represented by red markings.



G-meter (example)

- Press the left-hand Touch Control.
- Select Yes.
- Press the left-hand Touch Control.

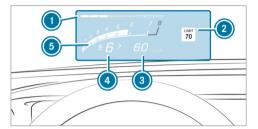
## Function of the Head-up Display

The Head-up Display projects the following information into the driver's field of vision above the cockpit, for example:

- The vehicle speed
- Information from the navigation system
- Information from the driving systems and driving safety systems
- Some warning messages

Depending on the vehicle's equipment, different content can be shown in the three areas of the Head-up Display.

### Mercedes-AMG display content



- Protection from reaching the overrevving range
- Detected instructions and traffic signs
- 3 Current speed
- Currently selected gear; gearshift options for manual shifting
- 6 Current engine speed

Depending on the vehicle's equipment, you can select further AMG displays in addition to the standard displays on the Display Content menu.

In vehicles with AMG TRACK PACE, you can display additional content:

- Speed and gear display
- Lap and sector times
- Acceleration and braking
- · Track layout graphics
- i The content that can be displayed will vary depending on the settings.

When you receive a call, the Incoming Call message will appear on the Head-up Display.

In audio mode, the station name or track will be shown temporarily when the audio source is being actively operated.

#### System limits

The visibility of the displays will be affected by the following conditions:

- · Seat position
- · Image position setting
- · Ambient light
- Wet road surface
- · Objects on the display cover

- Polarization in sunglasses
- (i) In extreme sunlight, sections of the display may appear washed out. You can correct this by deactivating and reactivating the Head-up Display.

#### AMG TRACK PACE

#### Function of AMG TRACK PACE

i This function is an on-demand feature .

With AMG TRACK PACE, the driving characteristics on race tracks can be analyzed and optimized. You can drive previously stored race tracks (e.g. Hockenheimring), or new tracks can be recorded and stored. The driven lap times are stored for every track. These can be analyzed and compared to other lap times to achieve the best possible race results. Additionally, acceleration and braking procedures can be measured and stored.

**Note:** Use AMG TRACK PACE only on closed off routes outside the public traffic area. Adapt your driving style to your personal performance and environmental conditions. As the driver, you are solely responsible for driving your vehicle. Park your vehicle safely before operating the application.

#### **Setting Track Race**

Multimedia system:

→ TRACK PACE → Track Race

#### Recording a new track

- ► Select New Track .
- Select Start Record. at the desired starting point.

  The track recording starts at this point.

During track recording, sectors can be set to divide up the track.

- Select Set Sector.
- Select Stop Recording to end track recording or cross the starting line again.
- Confirm the prompt with .
- Select the weather.
- (i) The temperature is determined automatically.
- ► After ending, select to save the track.
- Enter a name.
- Press OK to confirm.
  The track is saved under the name entered.

#### Searching by track name

- Select All Tracks .
- Enter the track name.
  Tracks with the searched name are displayed.

#### Measuring time on a saved track

- Select All Tracks.
- Select the desired track.
- Select Start Race if you are already stood at the starting line.

or

Select Navigate to for navigation to the starting line.

Timekeeping begins automatically when the starting line has been crossed.

- (i) When  $\blacktriangle_{AR}$  is selected, the track display can be switched to AR.
- ► Select Stop Race to end timekeeping.
- Confirm the prompt with OK.
- Select the weather.

Select Save Track to save the times driven for this track.

#### Showing displays during Track Race

The following displays can be shown:

- Tire temperature
- Mini map
- · Sector overview
- · Engine data
- G-force display
- · Lap overview
- Select Start Race.
- ► Select Setup.

 Pull the desired display from the grid on the left or right edge of the media display.
 The displays are shown during the Track Race.

By selecting  $\times$  on the active display, you can deactivate this.

Select to return to the navigation map view.

#### Displaying the analysis

- Select All Tracks .

  An overview of all the driven tracks appears.
- Select a track.
- Select a session.

The following data is displayed:

- · Lap and sector times
- · Average and maximum permissible speed
- Driver

- Vehicle
- Date
- Weather
- Select Compare to Rec. to use a different session as a reference value
- Select to return to the overview.
- Select Diagram.
- Set parameters  $P_{\odot}$  and  $P_{\odot}$ . The analysis is displayed.

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- Lap overview
- Parameter 1
- 3 Parameter 2
- Trajectory of parameter 1 (e.g. time)
- **⑤** Trajectory of parameter 2 (e.g. speed)
- (i) The following values can be set for parameters 1 and 2, for example:
  - Speed

- · Longitudinal/lateral acceleration
- · Steering angle
- · Engine speed
- Engine oil/tire temperature

Based on the analysis you can check and optimize driving characteristics for any position on the track.

#### Exporting tracks (USB)

- Select Tracks.
- An overview of all stored tracks appears.
- Select the desired track.
- Select options for the desired track.
- Select Export.

The selected track can be exported to a USB storage device connected to the vehicle.

#### Editing tracks and recordings

- Select Tracks.
- Select the desired track.
- ► Select options ••• for the desired track.
- Select Rename or Delete.

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- Select a track.
- Highlight the desired recording.
- ➤ Select 💍 options.
- Select Export to... or Delete.

## Setting Drag Race

Multimedia system:

→ TRACK PACE >> Drag Race

#### Measuring acceleration

- Select Drag Options.
- Select Acceleration.
- Set a starting speed or select Automatic.
   Measurement begins as soon as the specified starting speed has been reached.

- Set a target speed.
   Measurement stops as soon as the
  - Measurement stops as soon as the specified target speed has been reached.
- Pull away and start the measurement.
   Measurement begins when the vehicle accelerates.

Measurement can be stopped early by stopping the vehicle.

#### Quarter-mile race

- Select Drag Options.
- Select Quarter Mile.
- Set a target distance.
   Measurement stops as soon as the specified target distance has been reached.
- Pull away and start the measurement. Measurement begins when the vehicle accelerates. Timing runs until the target distance or a maximum of one mile has been traveled.

Measurement can be stopped early by stopping the vehicle.

#### Measuring braking

- Drag Options
- Select Braking.
- Set a starting speed or select Automatic.
- Pull away and start the measurement.
- Brake to a standstill. Measurement is incremental, in steps of 5 mph (10 km/h) to a standstill. If the braking procedure is started e.g. at a speed of 58 mph (157 km/h), measurement starts as soon as

### Storing and calling up measurement values

If measurement is completed or canceled, a prompt appears asking whether the measurement should be saved.

55 mph (150 km/h) has been reached.

Confirm the prompt with to save.

#### Calling up saved measurements

- ► Select **History**.
- Select Acceleration, Quarter Mile or Braking.
- Select a measurement.
  The desired measurement is

The desired measurement is displayed in detail.

#### 28 MBUX multimedia system

or

Delete a measurement.

#### Calling up the telemetry display

Multimedia system:

#### **TRACK PACE** ►>> Telemetry

The telemetry display shows current vehicle data as a digital value and as a diagram. Up to three parameters can be selected that are to be shown in the display.

#### For example:

- · Engine speed
- · Wheel angle
- Speed
- Steering angle
- Set the desired parameters.
- Set the time.
  - The set parameters are evaluated in the diagram for the time set.

#### Configuring AMG TRACK PACE

#### Requirements:

To connect a mobile device to the TRACK PACE app:

- The TRACK PACE app is installed on the mobile end device.
- The mobile end device is connected to the multimedia system via Wi-Fi.

#### Multimedia system:

→ TRACK PACE >> Options

# Connecting a mobile device via the TRACK PACE app

The TRACK PACE app makes it possible to record videos and to synchronize them with stored tracks.

- Select TRACK PACE App.
- Select AUTHORIZE NEW DEVICE.
   Available devices are displayed.
- Start the TRACK PACE app on the device to be connected and follow the instructions.
- Confirm the authorization prompt.

Scan the QR code on the media display. The device is authorized.

#### De-authorizing the mobile device

- Select TRACK PACE App.
- Select De-authorize device.
- Select a device.
- Confirm the message prompt with Yes.
   The device is de-authorized.

## Setting the TRACK PACE display in the Head-up Display

- Select HUD Content.
- Activate or deactivate the desired contents. The contents in the Head-up Display are adapted.
- (i) For further information on the Head-up Display, see (→ page 22).

#### Setting acoustic feedback

- Select Acoustic feedback.
  - A scale with values from 0 to 85 is shown.
- Select a setting.

## Displaying statistics

Select Statistics.

Statistics on the current user profile are displayed.

The following data is displayed:

- Driving time
- Track driven
- Tracks recorded
- · Track Races recorded
- Laps recorded
- Drag Races recorded
- Maximum design speed

**Activating the ambient light** If this function is active, the vehicle interior is lit red or green depending on Delta Time.

- Select Ambient light.
- Activate or deactivate the function.

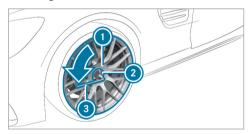
#### 30 Wheels and tires

#### Changing a wheel

Be sure to also observe the notes on changing a wheel in the Operator's Manual of your vehicle.

#### Installing/removing the hub cap

#### Removing



- Remove socket ② and lug wrench ③ from the vehicle tool kit.
- Position socket ② on hub cap ①.
- Position wheel wrench (3) on socket (2).

Using wheel wrench (3), turn hub cap (1) counter-clockwise and remove it.

#### Installing

- Before installing, check hub cap ① and the wheel area for dirt, and clean if necessary.
- Position hub cap (1) and turn until it is in the right position.
- Position socket ② on hub cap ①.
- Position lug wrench (3) on socket (2) and tighten hub cap (1).
- i Specified tightening torque: 18 lb-ft (25 Nm).

#### **Notes on Track Tires**

Track Tires are sports tires, which can be distinguished by their special tire tread and tire compound. These characteristics combine to provide significantly higher levels of grip on a dry road surface than conventional tires.

**WARNING** Risk of accident due to the tire tread depth diminishing more quickly

Due to the tire compound, the tire tread depth can diminish more quickly on these tires than on customary tires.

Driving at low temperatures of 50°F (10°C) and below, rain and bodies of water can lead to hydroplaning and, as a result, loss of control of the vehicle.

- When the roads are wet and/or in low temperatures, replace tires with suitable tires in good time.
- In the case of sudden rain, drive extremely carefully and slowly, especially when the roads are wet or in low temperatures.

#### Operating fluids

#### Fuel

## Information on fuel qualities for Mercedes-AMG vehicles

Observe the information on operating fluids in the vehicle operator's manual.

! NOTE Damage caused by the wrong fuel

Even small amounts of the wrong fuel could result in damage to the fuel system, the engine and the emission control system.

Only refuel with low-sulfur spark-ignition engine fuel.

This fuel may contain up to 10% ethanol by volume. Your vehicle is suitable for use with E10 fuel.

Never refuel with one of the following fuels:

- diesel
- Gasoline with more than 10% ethanol by volume, e.g. E15, E85, E100

- Gasoline with more than 3% methanol by volume, e.g. M15, M30, M85, M100
- Gasoline with additives containing metal

If you have accidentally refueled with the wrong fuel:

- Do not switch on the vehicle.
- Consult a qualified specialist workshop.

If the available fuel is not sufficiently low in sulfur, this can produce unpleasant odors.

Only refuel using premium-grade unleaded gasoline with at least 91 AKI/95 RON.

As a temporary measure, if the recommended fuel is not available, you may also use regular unleaded gasoline. When doing this, note the octane number on the vehicle on the information label in the fuel filler flap (see the vehicle's operator's manual). Filling up with regular unleaded gasoline can reduce engine output and increase fuel consumption.

Never refuel using gasoline with an even lower RON.

I NOTE Premature engine wear through unleaded regular gasoline

Impairment of the longevity and performance of the engine.

If unleaded premium grade gasoline is unavailable and you have to refuel using unleaded regular gasoline:

- Only fill the fuel tank to half full with unleaded regular gasoline and refill as soon as possible with unleaded premium grade gasoline.
- ▶ Do not drive at the maximum design speed.
- Avoid sudden acceleration and engine speeds over 3000 rpm.

Further information on fuel is available at the following locations:

- At a gas station
- · At a qualified specialist workshop
- USA only: At https://www.mbusa.com

#### 32 Technical data

## Tank content and fuel reserve (Mercedes-AMG vehicles)

Fuel tank total capacity

Model	
All models	13.5 gal (51.0 liters)

#### Reserve fuel tank

Model	
All models	1.3 gal (5.0 liters)

## Engine oil quality and filling capacity (Mercedes-AMG vehicles)

## Engine oil specification

Model	MB-Freigabe or MB- Approval
All models	229.71*

<sup>\*</sup> Recommended for the lowest possible fuel consumption.

To achieve the lowest possible fuel consumption, it is recommended to use the engine oil specifications marked in the table for the lowest SAE viscosity class. Observe any possible restrictions of the approved SAE viscosity classes.

## Engine oil filling capacity

Model	Capacity
Mercedes-AMG CLA 35 4MATIC	5.8 US qt (5.5 liters)
Mercedes-AMG CLA 45 4MATIC+	6.1 US qt (5.8 liters)

The specified filling capacity refers to an oil change with the oil filter.

### Coolant filling capacity (Mercedes-AMG vehicles)

#### Coolant (engine)

Model	Capacity
Mercedes-AMG CLA 35 4MATIC	8.7 US qt (8.2 liters)
Mercedes-AMG CLA 45 4MATIC+	12.3 US qt (11.6 liters)

### Coolant and PAG oil filling capacity (Mercedes-AMG vehicle)

## Refrigerant filling capacity

Model	
Mercedes-AMG CLA 35 4MATIC	$20.8 \pm 0.4 \text{ oz}$ (590 ± 10 g)
Mercedes-AMG CLA 45 4MATIC+	$35.6 \pm 0.4$ oz $(1010 \pm 10 \text{ g})$

## Filling capacity for PAG oil

Model	
All models	$2.8 \pm 0.4 \text{ oz}$ $(80 \pm 10 \text{ g})$

#### Vehicle data

#### Vehicle dimensions (Mercedes-AMG vehicles)

The heights specified may vary as a result of the following factors:

- Tires
- Load
- Condition of the suspension
- · Optional equipment

#### Vehicle dimensions

All models	
Vehicle width including outside mirrors	78.7 in (1999 mm)
Wheelbase	107.4 in (2729 mm)

#### Vehicle length

Model	
Mercedes-AMG CLA 35	184.8 in
4MATIC	(4695 mm)
Mercedes-AMG CLA 45	184.8 in
4MATIC+	(4693 mm)

### Vehicle height

Model	
Mercedes-AMG CLA 35	55.3 in
4MATIC	(1404 mm)
Mercedes-AMG CLA 45	55.4 in
4MATIC+	(1407 mm)

### Turning radius

Model	
Mercedes-AMG CLA 35	37.86 ft
4MATIC	(11.54 m)
Mercedes-AMG CLA 45	38.12 ft
4MATIC+	(11.62 m)

### Weights and loads (Mercedes-AMG vehicles)

Bear in mind that items of optional equipment increase the curb weight and reduce the payload. Vehicle-specific weight information can be found on the vehicle identification plate.

## Maximum design speed (Mercedes-AMG vehicles)

The following values only apply to vehicles with the AMG Driver's Package.

## 34 Technical data

## Mercedes-AMG CLA 35 4MATIC

Coupe	Maximum design speed		
1st gear	30 mph (48 km/h)		
2nd gear	47 mph (76 km/h)		
3rd gear	68 mph (110 km/h)		
4th gear	97 mph (156 km/h)		
5th gear	132 mph (212 km/h)		
6th gear	155 mph (250 km/h)		
7th gear	155 mph (250 km/h)		

## Mercedes-AMG CLA 45 4MATIC+

Coup	e	Maximum design speed	
1st ge	ear	32 mph (51 km/h)	
2nd ge	ear	46 mph (74 km/h)	
3rd ge	ear	72 mph (115 km/h)	
4th ge	ear	102 mph (164 km/h)	

Coupe	Maximum design speed
5th gear	140 mph (225 km/h)
6th gear	168 mph (270 km/h)
7th gear	168 mph (270 km/h)
8th gear	168 mph (270 km/h)

## Display messages

## **Driving systems**

Display messages	Possible causes/consequences and ▶ Solutions
RACE START Not Possible See Operator's Manual	<ul> <li>* Possible causes:</li> <li>• The conditions for activation are not met (→ page 15).</li> </ul>
RACE START Canceled	<ul> <li>* Possible causes:</li> <li>You released the accelerator pedal during RACE START.</li> <li>You depressed the brake pedal during RACE START.</li> <li>You can try RACE START again at the next start.</li> </ul>
DRIFT MODE Currently Unavailable See Operator's Manual	<ul> <li>* Possible causes:</li> <li>• The activation conditions have not been fulfilled (→ page 17).</li> </ul>
Malfunction Drive at Max. 50 mph	* The AMG Adaptive sport suspension system is malfunctioning. The vehicle's handling characteristics may be affected.  Do not drive at speeds greater than 50 mph (80 km/h).  Visit a qualified specialist workshop.

## 36 Display messages and warning/indicator lamps

Display messages	Possible causes/consequences and ▶ Solutions
AMG Suspension System Function Limited See Oper- ator's Manual	* One or more main functions of the AMG adaptive sport suspension system is malfunctioning.  The system is outside the operating temperature range or the on-board electrical system voltage is too low.  Once the cause of the problem is no longer present, the system will be available again.
	<b>NOTE</b> The vehicle's suspension and damping behavior is restricted. The vehicle body may tilt heavily to the side during cornering.
	<ul> <li>Drive on carefully.</li> <li>Reduce speed considerably before taking a bend.</li> <li>Avoid sudden steering movements.</li> </ul>
	<ul> <li>Drive on carefully.</li> <li>Reduce speed considerably before taking a curve.</li> <li>Avoid sudden steering movements.</li> </ul>

## Warning and indicator lamps

#### **Driving systems**

#### Warning/indicator lamp



Suspension warning lamp (yellow)

## Possible causes/consequences and ▶ Solutions

- \* The yellow AMG adaptive sport suspension system warning lamp is lit. There is a malfunction in the AMG adaptive sport suspension system.
- Note the messages on the instrument display.



DRIFT MODE warning lamp

\* DRIFT MODE is activated while the engine is running.

**WARNING** Risk of skidding and having an accident from wheels spinning

When you use DRIFT MODE, ESP® is not available.

There is an increased risk of skidding and having an accident.

- Do not use DRIFT MODE on normal roads.
- ▶ DRIFT MODE may only be activated and used on closed race circuits, not on public roads.
- Make sure that no persons or obstacles are in the close vicinity of your vehicle.
- ightharpoonup Observe the notes on activating DRIFT MODE (ightharpoonup page 16).

#### **Driving safety systems**

## Warning/indicator lamp



## Possible causes/consequences and ▶ Solutions

\* The yellow ESP® OFF warning lamps are lit while the vehicle is running. FSP® is deactivated.

Other driving systems and driving safety systems may also be inoperative.

**WARNING** Risk of skidding when driving with ESP® deactivated

ESP® does not act to stabilize the vehicle. The availability of further driving safety systems is also limited.

- Drive on carefully.
- Deactivate ESP<sup>®</sup> only for as long as the situation requires.

If ESP® cannot be activated, ESP® is malfunctioning.

- ► Have ESP® checked immediately at a qualified specialist workshop.
- ▶ Observe the notes on deactivating ESP<sup>®</sup> ( $\rightarrow$  page 12).



\* ESP® SPORT is activated while the vehicle is running.
When ESP® SPORT is activated, ESP® will stabilize the vehicle only to a limited extent.

**MARNING** Risk of skidding if ESP® SPORT is used incorrectly

When you activate ESP® SPORT, there is an increased risk of skidding and having an accident.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	Activate ESP® SPORT only in the circumstances described below.
	▶ Observe the notes on activating ESP® SPORT( $\rightarrow$ page 12).

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