

BUGATTI

Bolide

OWNER'S MANUAL

 **WARNING**

The BUGATTI BOLIDE is not road legal.

 **WARNING**

Only for US/California market:
Operating, servicing, and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.
For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

NOTE

The preceding warning is required by California law. BUGATTI RECOMMENDS THAT YOU NOT ATTEMPT TO SERVICE YOUR BOLIDE ON YOUR OWN. Only an Authorised BUGATTI Partner should service your bolide.

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This owner’s manual is valid for the current model of the BUGATTI BOLIDE.

All the information provided in this owner’s manual corresponds with the information available at the time of the editorial deadline. Due to the continuous development of the vehicle, it is possible there may be deviations between the vehicle and the information in this owner’s manual. No legal commitment can be derived from the different information, illustrations or descriptions in this manual. No part of the manual may be reprinted, reproduced or translated without the written permission of BUGATTI.

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WELCOME

What started as an experiment has now become reality.

Welcome to your BUGATTI BOLIDE. Enjoy this special first moment in the most extreme, uncompromising and lightest vehicle in our recent company history.

The BOLIDE is the ultimate answer to the question of what if BUGATTI built a track-only hyper sports car around the iconic W16 engine.

A true automotive thoroughbred, a Pur Sang des Automobiles which will impress you with its racing character, unbridled performance, and an entirely new dimension to your driving experience. Pure, raw, and authentic: a circuit-purpose machine with minimal bodywork and maximum downforce, presenting the legendary W16 engine in its most essential form.

Along with incredible power, precision and performance, the BOLIDE offers exceptional levels of safety, with systems and features in line with FIA race car requirements.

We invite you to take some time with this owner’s manual in order to familiarize yourself with all functions and experience the dynamic potential of your BOLIDE in comfort and safety.

We give you the BOLIDE, as our interpretation of a contemporary track-only BUGATTI, transforming a long-held dream into tangible reality.

VIVE LA MARQUE!

BUGATTI Automobiles S.A.S.

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ABOUT YOUR BUGATTI BOLIDE MANUAL



INTRODUCTION

This Owner's Manual contains important information and warnings regarding your BUGATTI. Read it carefully before using it. Have other users do the same. Your BUGATTI is not like other cars. It is not street legal. It is a hypercar for track driving. You and other users must read this manual for your safety, the safety of others, and the protection of your BUGATTI.

The manual is subject to change. The latest version can be found here:

www.bugatti.com/as/owner-manual-bolide



Make sure that you always keep this Owner's Manual in your BUGATTI, even if you lend or sell the vehicle. Some of the equipment described in your manual is only available for certain markets. Illustrations may vary slightly from your BUGATTI. For this reason you should regard illustrations as a general guide. At the end of this manual you will find an alphabetically arranged index. Directions and positions are always relative to the direction of travel of the vehicle unless stated otherwise. Registered trademarks are marked ®. However, the absence of this symbol does not constitute a waiver of the rights concerning any term.

You will find the service schedules and terms of the warranty as well as information on racetrack driving in this document.

SYMBOLS

 **DANGER**

Messages with this symbol draw attention to dangerous situations which will cause imminent death or serious injury if ignored.

 **WARNING**

Messages with this symbol draw attention to dangerous situations which could cause death or serious injury if ignored.

 **CAUTION**

Messages with this symbol draw attention to dangerous situations which could damage your BOLIDE or other property.

NOTE

Messages with this symbol contains additional information.

-  Messages with this symbol contain information about the environment and how you can help protect it.
-  Messages with this symbol contains additional information.

GENERAL PRECAUTIONS

 **WARNING**

You and all others who will use your BUGATTI must read the manual before using it and must follow the manual while using it. Failure to heed the warnings in the manual could result in accident, serious injury, or death.

 **WARNING**

The warning labels attached to your BUGATTI are intended to draw attention to certain risks. Do not remove any warning labels. Failure to heed this warning could result in serious injury or death.

NO PARTNERSHIP/NO AGENCY

THE MANUAL REFERS TO “AUTHORISED BUGATTI PARTNER” THROUGHOUT. THOSE ARE INDEPENDENT ENTITIES. THE TERM “PARTNER” DOES NOT REFER TO OR CREATE A LEGAL RELATIONSHIP SUCH AS A PARTNERSHIP OR AGENCY. NO PERSON OR ENTITY ACTS OR SPEAKS FOR A BUGATTI ENTITY (E.G., VOLKSWAGEN GROUP OF AMERICA, INC. D/B/A BUGATTI OF THE AMERICAS, BUGATTI AUTOMOBILES S.A.S) EXCEPT ONE WHO HAS BEEN EXPRESSLY AUTHORISED TO DO SO IN WRITING.

OPERATING SAFETY

 **WARNING**

The electronic systems fitted to your BUGATTI interact with each other. Tampering with these systems could cause malfunctions in other interconnected systems. Such faults could seriously endanger the operational safety of your BUGATTI and your own safety.

Additional work or modifications made to the vehicle, which have been carried out incorrectly can also affect its operating safety.

 **WARNING**

Take great care when driving over ramps, protruding features, uneven or rough ground as severe damage to the underside of your BOLIDE may occur.

Vehicle Use

- Observe the following when using your BUGATTI:
- The BUGATTI is not certified for road use and it is illegal to drive this vehicle on the public road.
 - The safety notes throughout this information.

 **WARNING**

There are various warning labels attached to your BUGATTI. These are intended to make you and others aware of various risks. Do not remove any warning labels from the vehicle.

- ▶ If you remove these warning labels, you or others may not then be aware of dangers, which may result in an injury.

 **WARNING**

Driving under the influence of alcohol, drugs, medication and narcotics can cause serious accidents and lead to fatal injury.

- ▶ Alcohol, drugs, medication and narcotics can seriously impair your awareness, reaction times and driving safety which could lead to you losing control of the vehicle.

 **WARNING**

Drive proactively. Assessing the driving situation correctly can make the difference between safety reaching and an accident with serious injury.

NOTE

BUGATTI is not responsible for damage to the vehicle caused by using inferior quality fuel or inadequate servicing.

Driving preparations and driving safety

- Before starting to drive and while driving, pay attention to the following points for your own safety and for that of your passengers and other track users:
- ☑ Check that the lights are all in perfect working order.
 - ☑ Check the fuel level.
 - ☑ Check the tire pressures and wheels for damage.
 - ☑ Make sure you have clear visibility out of all windows.
 - ☑ It must be possible to operate the pedals at all times.
 - ☑ Never transport children in the car, who are under 12 years old or less than 150 cm (4'11") tall.
 - ☑ Wear shoes which that provide sufficient grip to operate the pedals.
 - ☑ Make sure you are sitting correctly before setting off and keep this position while driving.
 - ☑ Put on your safety belt before setting off and wear it correctly while driving.
 - ☑ Put on a helmet before getting in the car.
 - ☑ Put on gloves before getting in the car.
 - ☑ Attach the steering wheel using the quick release.
 - ☑ Only transport as many people for which there are seats and safety belts.
 - ☑ Never drive when your driving ability is impaired, e.g. by medication, alcohol, or drugs.

01

1 VEHICLE OVERVIEW



1.1 GENERAL

 **WARNING**

Your BOLIDE is designed for the track. It is not certified for driving on public roads. It is not equipped with systems and features required for safe, lawful operation on public roads. Never drive your BOLIDE on a public road. Failure to heed this warning could result in accident, serious injury, or death.

 **WARNING**

Your BOLIDE has an extremely low ground clearance for aerodynamic performance. Be aware of its limitations. Do not drive over conditions (e.g., bumps, gore, track edges) that exceed your BOLIDE’s ground clearance. Failure to heed these warnings could lead to serious injury and death.

 **WARNING**

Your BOLIDE is not equipped with air bags. Use the six-point harness, racing seat, helmet, and helmet/neck protection to restrain the driver and co-driver and to reduce the risk of injurious contact during a crash.

 **WARNING**

Any structure can be damaged and demolished, including your BOLIDE. If your BOLIDE is involved in a collision whose forces overwhelm its structure, it cannot guard against vehicle damage, serious injury, and death.

 **WARNING**

Your use of your BOLIDE may be governed by rules of a track, an event, or a session. Follow those rules. If there is a conflict between any instructions or warnings of this manual and those of a track, event, or session, then consult track and event officials and an Authorised BUGATTI representative. If you are uncertain about how to proceed, do not drive on the track or in the event. Failure to heed these warnings could lead to serious injury and death.

 **CAUTION**

Your BOLIDE should not be driven when the ambient temperature is below 10°C (50°F) or above 35°C (95°F). Colder or hotter temperatures will degrade performance and may damage the engine and void the warranty.

 **CAUTION**

Your BOLIDE should not be driven at high altitude, which will degrade performance and may damage the engine and void the warranty.

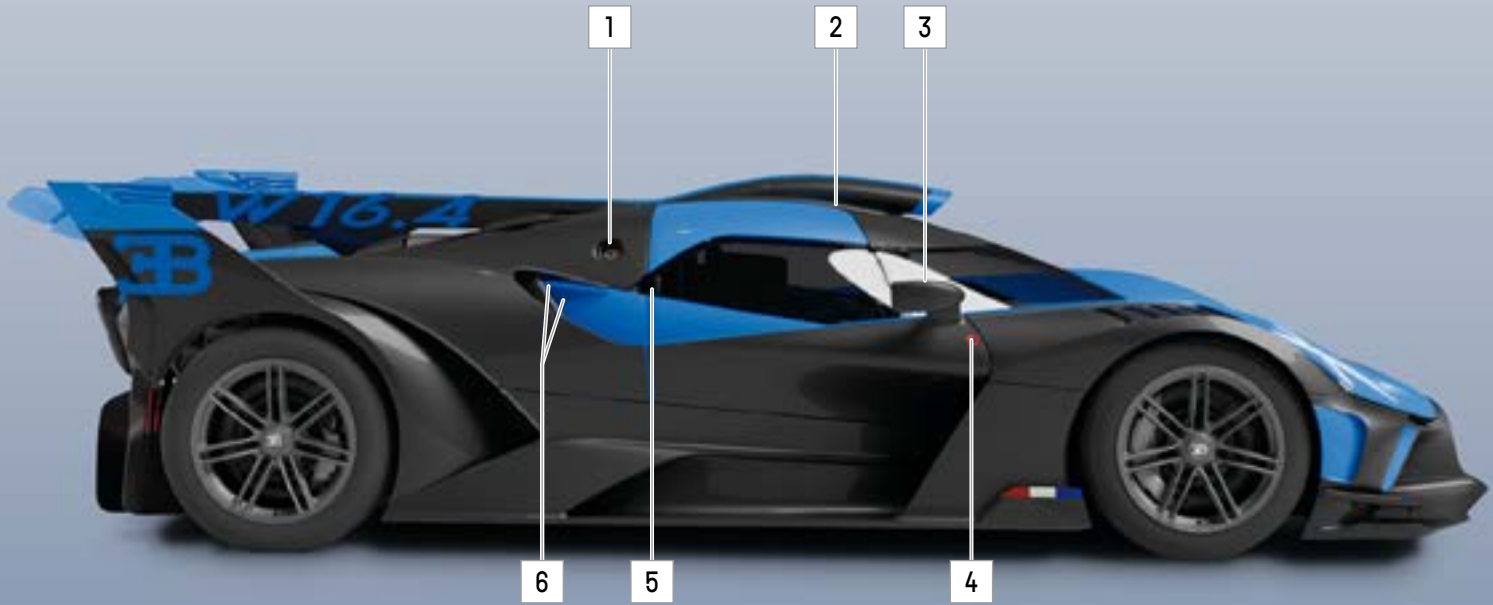


1. 2 VEHICLE VIEWS

1. 2. 1 Front view

- 1 Front windscreen
- 2 Front daytime headlights
- 3 Front towing eye
- 4 Engine air intake

FIG.1 OVERVIEW OF FRONT



1. 2. 2 Side view

Each side is a mirror image of the other.

- 1 Fuelling valve
- 2 Safety door: Emergency release pin on the roof
- 3 Exterior mirror
- 4 Safety door: Emergency release pin in the door
- 5 Door handle
- 6 External STOP Button and external Fire E. Button

FIG.2 OVERVIEW OF RIGHT SIDE



1. 2. 3 **Rear view**

- 1 Rear wing
- 2 Air jack connection
- 3 Taillight (rear light), brake light and rain light
- 4 Rear towing eye

FIG.3 OVERVIEW OF REAR

1.3 STICKERS AND SIGNS

Stickers and signs are not affixed to the vehicle. They are supplied in the BUGATTI accessory box. You are responsible for applying, maintaining, and replacing stickers and signs as you deem appropriate and in compliance with track and event rules.



FIG.4 FIA STICKERS AND SIGNS



1. 4 STEERING WHEEL

1. 4. 1 Steering wheel buttons and switches

i All functions directly related to driving and operating the car, and which influence the handling of the car or are changed frequently during a stint or lap, are located on the steering wheel.

- 1 Radio communication. Communication with pit crew
- 2 Confirm/Acknowledge.
Acknowledge for display functions:
 - OK for display warnings.
 - Confirmation of high-speed mode
- 3 Quick release system. To attach and detach the steering wheel.
- 4 Marker. Marker for datalogger
- 5 Flash headlights
 - Activation of flash headlights
 - Activation of high-speed mode
- 6 Upshift paddle to switch through the gears

- 7 Rotary collar right. Scrolling through right display pages
- 8 Traction control (TC)
Adjusting traction control assistance level
- 9 Pitspeed. Automatic speed-reduction to pit speed.
- 10 Launch control (LC). Button to switch on Launch Control
- 11 Engine. Button to switch engine on.
- 12 Brightness. Control display brightness
- 13 Switch between Pro Driver display and Driver display mode
- 14 ABS. Adjusting ABS strength
- 15 Rotary collar left. Scrolling through left display pages
- 16 Downshift paddle to switch through the gears

FIG.5 OVERVIEW OF STEERING WHEEL



1. 5 CENTRE CONSOLE

1. 5. 1 Switches

i All functions not directly related to driving and operating the car, and which do not influence the handling of the car and are, therefore, not changed frequently during a stint or lap, are located on the centre console.

- A** Ignition Switch: switch which wakes all systems and fills fuel lines. Switch off the engine
- B** Master Switch: switch on/off main power supply to the car
- C** STOP Button: interrupts the main power supply to the car in case of emergency
- D** FIRE E. Button: triggers fire extinguisher system in case of emergency

NOTE

Always switch on the Master Switch **(B)** first and then the Ignition Switch **(A)**. Switch off in the reverse order.

i In normal driving conditions the **Master (B)** and **Ignition (A)** switches should be **ON**.

FIG.6 OVERVIEW OF CENTRE CONSOLE

1. 5. 2 Centre panel

i The console buttons are multi state. Consecutive presses of each button scrolls through the following modes. The colour of each button changes when the state changes as indicated below.

- 1** Hazard Warning Light Button
- 2** Driver Fan Button: three speeds available (off-low-mid-high)
- 3** A/C Button
- 4** Windscreen Heater Button
- 5** Units Button
- 6** Park Button
- 7** Lights Button: front and rear lights on/off
- 8** Rain Light Button
- 9** Wet Mode Button: to be used when the vehicle is stationary
- 10** ESC Off Button

1. 6 DISPLAYS

1. 6. 1 Display Pages

There are three displays above the steering wheel. This subsection provides an overview. There is more detail in Section 02 Instruments.

 Scroll through the display pages via rotary collar 7 and 15 (» Fig.7) on the steering wheel.

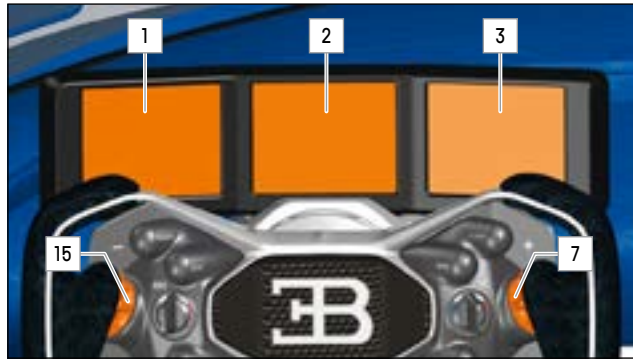


FIG.7 DISPLAYS AND STEERING WHEEL

- 1

 Left display
- 2

 Central display
- 3

 Right display
- 7

 Rotary collar for right display (3)
 - Use the rotary collar 7 (» Fig.7) to scroll through the right pages.
- 15

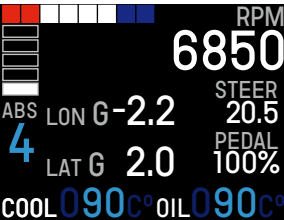
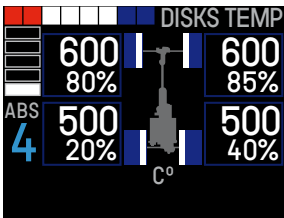
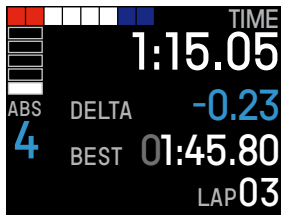
 Rotary collar for left display (1)
 - Use the rotary collar 15 (» Fig.7) to scroll through the left pages.
 - ☒ The selected display view is shown.

The Central display can be switched from Driver to Pro Driver mode using the DISP Switch 13 (» Fig.5) on the steering wheel.

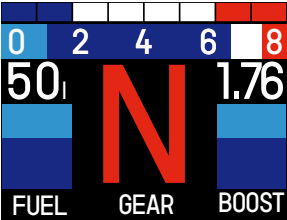
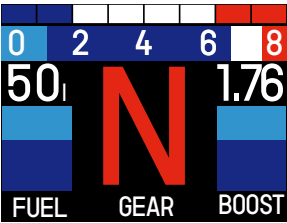
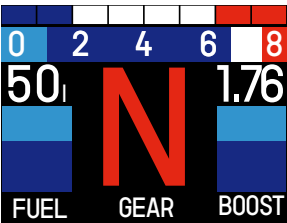
1. 6. 2 Driver mode displays

These graphics show the display options available in Driver mode, see » page 42.

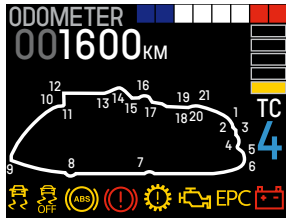
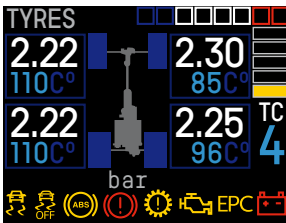
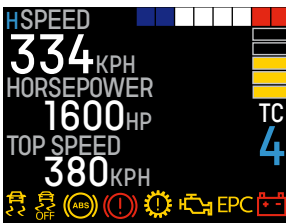
► Scroll through the display pages via rotary collar 7 or 15 (» Fig.7) on steering wheel.



LEFT SCROLLABLE DISPLAY



CENTRAL FIXED DISPLAY

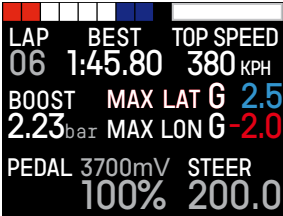
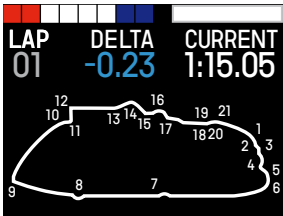
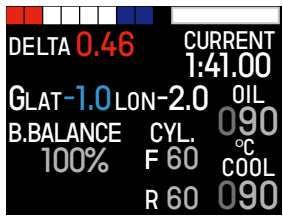


RIGHT SCROLLABLE DISPLAY

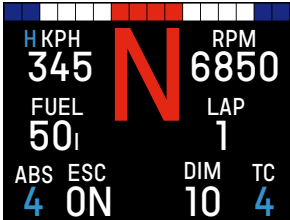
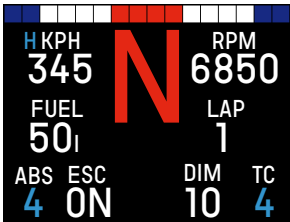
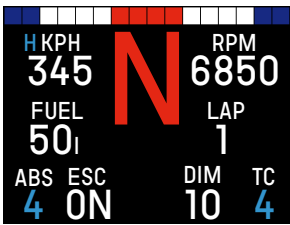
1. 6. 3 Pro Driver mode displays

These graphics show the display options available in Pro Driver Mode, see » page 62.

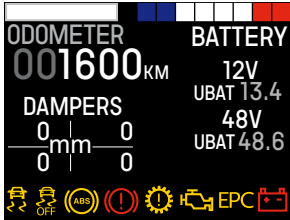
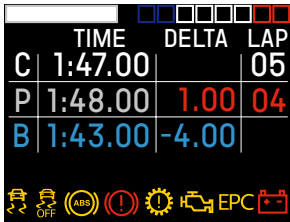
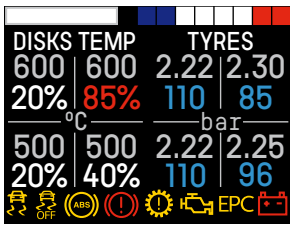
► Scroll through the display pages via rotary collar 1 or 2 (» Fig.7) on steering wheel.



LEFT SCROLLABLE DISPLAY



CENTRAL FIXED DISPLAY



SCROLLABLE

1. 6. 4 Warning lights and messages

 **WARNING**

Display and acoustic warnings are for your safety and the safety of those in or near your BUGATTI.

Failure to heed these warnings could result in accident, serious injury, or death.

- Never ignore warning lamps and acoustic warnings.
- Stop the vehicle as soon as possible in a safe manner and in a safe place.
- Activate the hazard lights.
- Follow all rules of the track and the event.
- Avoid stopping on a track, adjacent to a track, or where your BUGATTI is not clearly visible to other drivers.
- Do not stop over or near combustible materials such as dry grass or engine fluids.

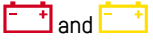
NOTE

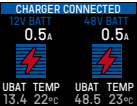
Ignoring illuminated indicator lamps and messages can result in vehicle damage.

Warning and information messages

When your BUGATTI's Ignition Switch is on, its systems run certain self-diagnostics. Malfunctions are indicated by red and yellow warning symbols or messages in the displays. Acoustic warning signals may also sound. If there are several warning messages, the symbols will appear in succession for several seconds. The symbols appear until the cause of the malfunction is rectified.

Symbol description

Symbol	Meaning
	Illuminated: Electronic Stability Control (ESC) is switched off for system reasons or Electronic Stability Control (ESC) is faulty (» page 164) OR: Together with ABS indicator lamp  : Anti-lock braking system (ABS) fault (» page 160) OR: The vehicle battery has been reconnected (» page 223). Flashing: Electronic stability programme (ESC) or traction control (TC) is regulating (» page 164)
	Traction control (TC) and Electronic Stability Control (ESC) has been switched off manually (» page 164)
	ABS warning light Together with ESC indicator lamp  : Anti-lock braking system (ABS) fault (» page 160).
	 Stop driving! - ABS warning light Brake fluid level is too low or brake system is faulty (» page 221) Notify an Authorised BUGATTI Partner without delay.
	 Stop driving! - Gearbox warning light Notify an Authorised BUGATTI Partner without delay.
	 Stop driving! - Emission control fault Notify an Authorised BUGATTI Partner without delay.
	 Stop driving! - Engine management fault Notify an Authorised BUGATTI Partner without delay.
	Alternator malfunction warning light OR: Battery is not charged while engine is off.

Symbol	Meaning
	Full Page Overlay The overlay page appears on the screen as soon as the "Master Switch" is OFF and a charger is connected to the car. The display brightness is set to 0 and all the relevant information is showed in the central display. Turn the "Master Switch" to ON, to return to the standard display layout.
	Alarm Display Overlay can be placed over any page and will cover the page.
	Warning Display Overlay can be placed over any page and will cover the page.
	Charging Overlay The overlay page may appears on the screen as soon as the "Master Switch" is OFF and a charger is connected to the car, only if the 48 V battery needs to be charged. The display is intended to inform the driver or mechanic information about the state of the batteries. Turn the "Master Switch" to ON, to return to the standard display layout.

02

2 INSTRUMENTS



2. 1 RACE DRIVER DISPLAY

2. 1. 1 Overview

The Race Driver Display is activated when the ignition is switched on, see » page 146.

If one or more displays do not power on with the vehicle, there is a fault. Do not attempt to drive the vehicle. Contact an Authorised BUGATTI Partner immediately.

 **WARNING**

Driving your BUGATTI when a display is inactive risks accident, serious injury, and death.

The information displayed on the Race Driver Display can be configured to suit your preference:

- Driver mode
- Pro Driver mode.

2. 1. 2 Selecting the mode



FIG.8 DISPLAY BUTTON ON THE STEERING WHEEL

- 13

Switch between Driver display and Pro Driver display mode
- ▶

Press the button **13** (» Fig.8) on the steering wheel to switch the display between Driver display and Pro Driver display mode.
- ☒

The selected mode is shown in the display.

2. 2 DRIVER MODE DISPLAYS

2. 2. 1 Driver mode left display

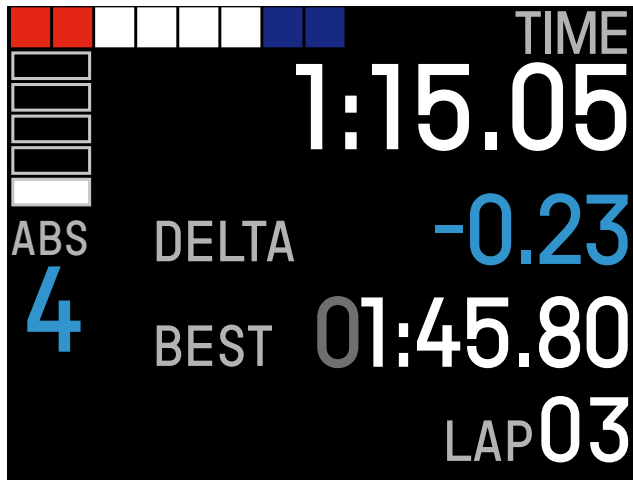


FIG.9 DRIVER MODE LEFT DISPLAY 1ST VIEW

Driver mode left display - 1st view

	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
	ABS intervention	NO system actively intervening: all segments are black. ABS intervention: all segments flash in WHITE as long as ABS is intervening. The number of the segments to be lit up depends of the ABS map currently selected. (eg.: ABS map=4, four white segments will flash when ABS is in active control).
	ABS map	ABS map dial position. 1 - maximum ABS assistance -> 5 - minimum ABS assistance
	Last lap time	Static last lap time value (s)
	Current delta	Static value (s): calculated at the finish line delta between last lap time and current lap time. Blue value: delta negative, faster Red value: delta positive, slower
	Current best lap time	Best lap time achieved in session (s)
	Current lap	Starting from 1 and counting

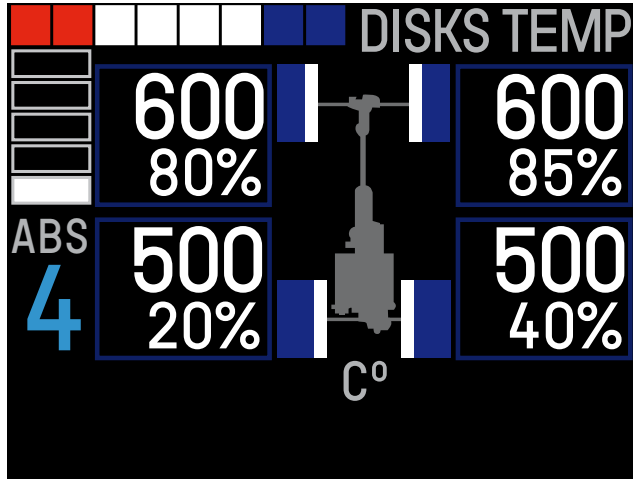


FIG.10 DRIVER MODE LEFT DISPLAY 2ND VIEW

Driver mode left display - 2nd view

	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
--	--------------------	---

	ABS intervention	NO system actively intervening: all segments are black. ABS intervention: all segments flash in WHITE as long as ABS is intervening. The number of the segments to be lit up depends of the ABS map currently selected. (eg.: ABS map=4, four white segments will flash when ABS is in active control).
	ABS map	ABS map dial position. 1 - maximum ABS assistance -> 5 - minimum ABS assistance
	Full page Disk temperature and Oxidation Rate Warnings	Two configurations: METRIC or IMPERIAL units Disk Temperature: Celsius or Fahrenheit Oxidation Rate over the lap (unitless - %)
	Disk temperature	The disk temperature value for each corner can be lit in a different colour: WHITE: disk temperature below warning limit RED: disk temperature above warning limit
	Oxidation Rate	The disk oxidation rate over lap value for each corner can be lit in a different colour: WHITE: rate below warning limit RED: rate above warning limit

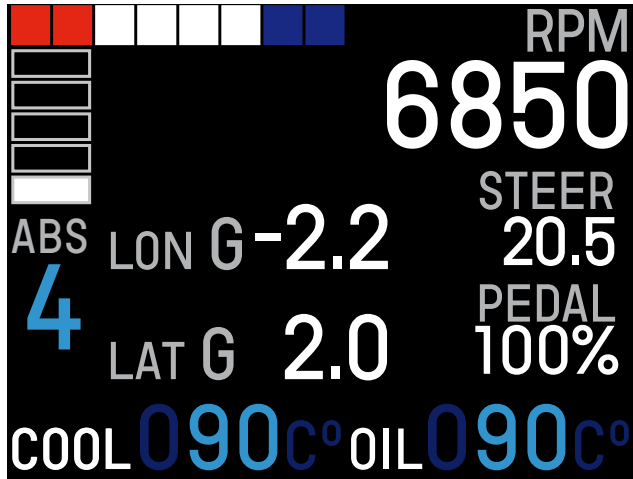


FIG.11 DRIVER MODE LEFT DISPLAY LEFT 3RD VIEW

Driver mode left display - 3rd view

	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
--	--------------------	---

	ABS intervention	NO system actively intervening: all segments are black. ABS intervention: all segments flash in WHITE as long as ABS is intervening. The number of the segments to be lit up depends of the ABS map currently selected. (eg.: ABS map=4, four white segments will flash when ABS is in active control).
	ABS map	ABS map dial position. 1 - maximum ABS assistance -> 5 - minimum ABS assistance
	Revs	Dynamic value
	G meter	Dynamic longitudinal and lateral acceleration values
	Steering angle	Dynamic value of steering angle [°]
	Throttle pedal position	Dynamic value [%]: from 0% to 100%
	Engine coolant temperature	Dynamic value: °C for METRIC units °F for IMPERIAL units
	Engine oil temperature	Dynamic value: °C for METRIC units °F for IMPERIAL units

2. 2. 2 Driver mode central display

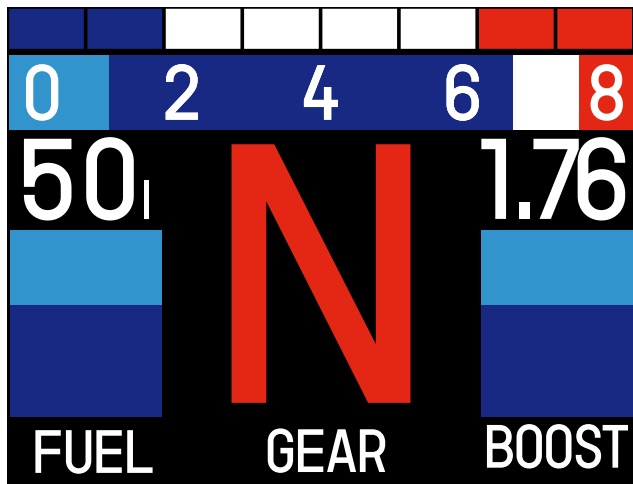


FIG.12 DRIVER MODE CENTRAL DISPLAY WITHOUT WARNINGS/ALARMS/BANNERS

Driver mode central display

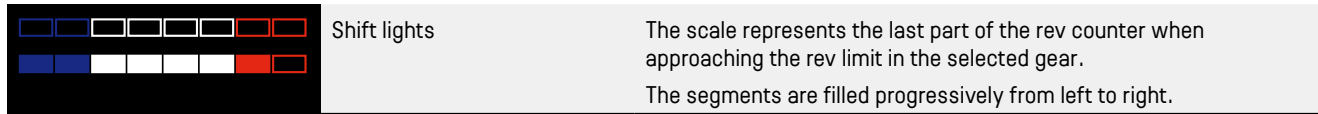


FIG.13 DRIVER MODE CENTRAL DISPLAY WITH SELECTED WARNINGS

	Horizontal gauge	The size of the light-blue bar increases in accordance with the rev counter. Static numbers as upper layer. Static bar with French flag colour as background.
	Gearbox (GBX) selected gear	N - neutral R - reverse P - parking F - GBX failure 1 to 7 - gear ratios
	Fuel remaining	Dynamic value (l): liters left. Refueling must be done with engine off. The fuel level is measured at engine start and remaining level is updated during drive. If no ABS or TC warnings are currently displayed, a blue vertical gauge is shown. The size of the gauge decreases as the amount of fuel decreases.
	Boost pressure	Dynamic value (bar for METRIC units - psi for IMPERIAL units): actual boost pressure measured at engine inlet. When TC is ON and WET mode OFF a vertical blue gauge is shown, which fills from bottom to top as the boost pressure increases. If only WET mode is ON, a reduced vertical gauge is shown. If only TC is OFF no vertical gauge is shown. If TC is OFF and WET mode ON just the dynamic boost value is shown.
	Electronic Stability Control Warning	Warning message that ESC has been turned off: - TC rotary knob in position 4 or 5 (Pro Drivers maps settings) - ESC and TC off request via central control button

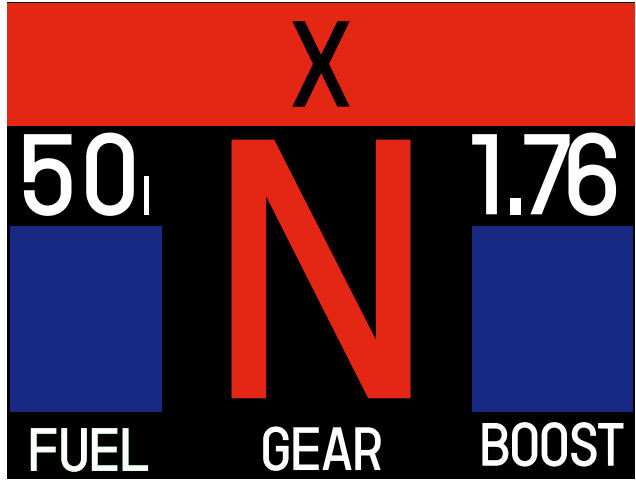


FIG.14 DRIVER MODE CENTRAL DISPLAY WITH ALARM(S) OVERLAY

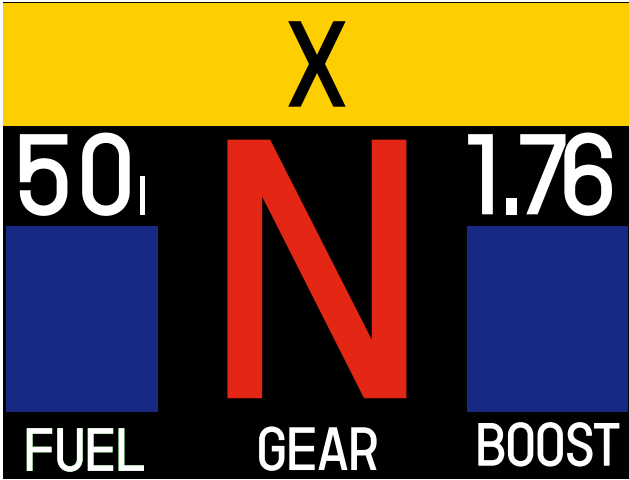


FIG.15 DRIVER MODE CENTRAL DISPLAY WITH WARNING(S) OVERLAY

Driver mode central display

	Traction Control Warning	Warning message that TC has been turned off: ESC and TC off request via central control button
	WET mode indication	Indication to the driver WET mode has been activated in all powertrain control units after driver request from button pressing in the central console.
	PIT speed engaged	Pit speed limiter activated by driver by pressing "PIT" button on the steering wheel: - the yellow icon will flash if the pit speed request has been acknowledged by engine ECU, but the speed is not yet limited so depressing the accelerator will still cause the car to accelerate, - as soon as the car speed is below 70 kph (43 mph), the icon will start flashing blue which means that regardless of accelerator pedal actuation speed will be limited to 60 kph (37 mph), - by pressing the "PIT" button again, the icon will disappear and vehicle speed is no longer limited.
	Alarms overlay	Red box defined. Different messages can appear inside of it.
	Warnings overlay	Yellow box defined. Different messages can appear inside of it.

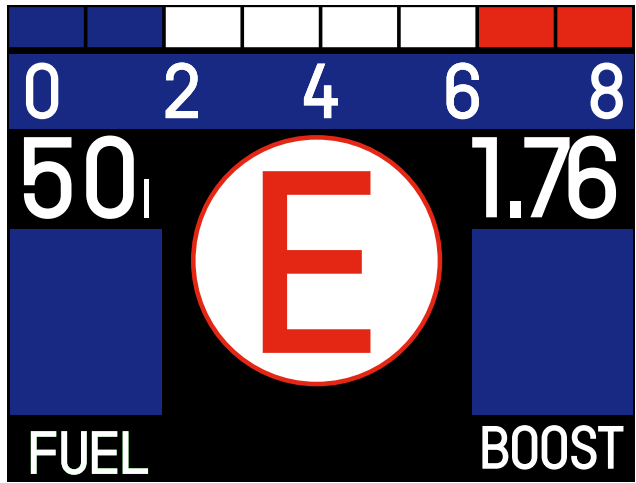


FIG.16 DRIVER MODE CENTRAL DISPLAY WITH FIRE EXTINGUISHER OVERLAY

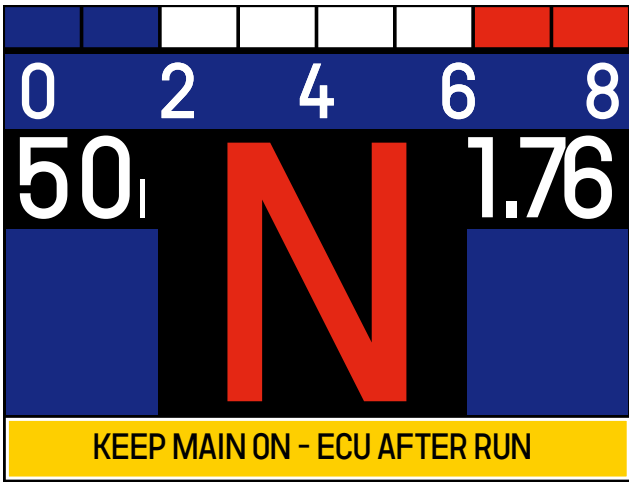


FIG.17 DRIVER MODE CENTRAL DISPLAY WITH KEEP ENGINE ON - ECU AFTER RUN OVERLAY

Driver mode central display

	Fire Ext overlay	Overlay Icon to remind the driver to check the status of the fire extinguisher system. The icon appears continuously for 3 seconds in the centre of the display each time the "Ignition Switch" changes state. From OFF to ON: system should be ARMED before driving From ON to OFF: system should be put into TEST mode, driving session finished, see » page 138
	Engine ECU After Run overlay	Request to user to keep the "Master Switch" in ON position every time the "Ignition Switch" is moved to OFF position. This banner will be shown as long as the engine ECU needs power to save adaptive data (up to 300 seconds). NOTE: this routine is intended to optimise adaptive parameters on the engine side since the ECU is not designed to have the "Master Switch" signal interrupted as a standard operation. Engine components will not be damaged as a result of turning the "Master Switch" to the OFF position before the warning disappears.
	Unit system overlay	Banner to indicate which measuring unit has been selected by pressing the dedicated button on the centre console panel. The banner automatically disappears after 2 seconds.

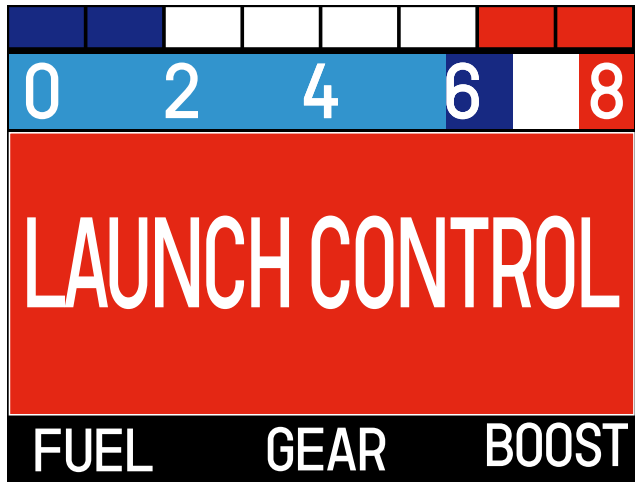


FIG.18 DRIVER MODE CENTRAL DISPLAY WITH LAUNCH CONTROL OVERLAY

Driver mode central display

	Launch Control overlay	Information to the driver "Launch Control" mode is engaged. Banner automatically disappears after 2 seconds.
	High Speed Mode overlay	While engine OFF and "Ignition Switch" is ON, by pressing "FLASH" button for >3 seconds the low downforce setup can be activated. After the "FLASH" button is pressed the orange popup is displayed for 10 seconds asking the driver to confirm the setup change by pressing "ACK" button within those 10 seconds. If the procedure is performed correctly a blue popup appears which confirms the setup change (360 kph (224 mph) limit removed and tire pressure warnings level changed). On top of that a small blue "H" symbol will show near speed indication on both display setups (see dedicated parts). As soon as the engine is off the high speed mode will be turned off (check "H" symbol on displays). If the procedure is not completed, a red popup appears which indicates that the setup has been disabled.

2. 2. 3 Driver mode right display

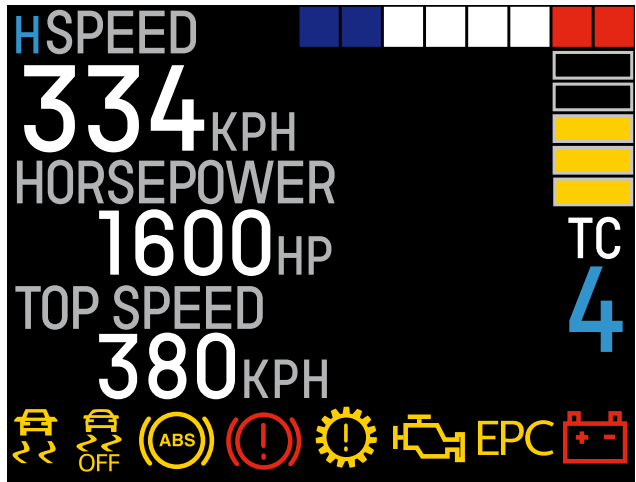


FIG.19 DRIVER MODE RIGHT DISPLAY 1ST VIEW

Driver mode right display - 1st view

	Rev Limiter lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
	TC intervention	NO system actively intervening: all segments are black. TC intervention: all segments flash in YELLOW as long as TC is intervening. The number of the segments to be lit up depends of the TC map currently selected. (eg.: TC map=4, four yellow segments will flash when TC is in active control).
	TC map	Traction Control map dial position. 1 - maximum TC assistance -> 5 - minimum TC assistance
	Current car speed	Dynamic value: KPH - METRIC unit / MPH - IMPERIAL If the "H" blue symbol is on, it means the "high-speed mode/low downforce" setup is active.
	Engine Power	Dynamic value: actual engine power expressed in horsepower
	Maximum Speed achieved	Maximum car speed reached in the current ignition cycle Static values: KPH - METRIC units/ MPH - IMPERIAL units The current value is set to zero whenever the engine is started or a ignition cycle is performed.
	Warning symbols	Fixed position for each warning symbol. If no warning symbol is active, this area is black.

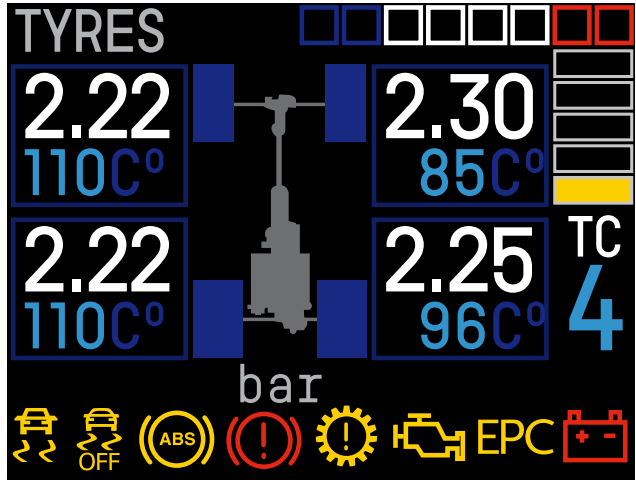


FIG.20 DRIVER MODE RIGHT DISPLAY 2ND VIEW

Driver mode right display - 2nd view

	Warning symbols	Fixed position for each warning symbol. If no warning symbol is active, this area is black.
	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.

	TC intervention	NO system actively intervening: all segments are black. TC intervention: all segments flash in YELLOW as long as TC is intervening. The number of the segments to be lit up depends of the TC map currently selected. (eg.: TC map=4, four yellow segments will flash when TC is in active control).
	TC map	Traction Control map dial position. 1 - maximum TC assistance -> 5 - minimum TC assistance
	Full page TIRES	Two configurations: METRIC or IMPERIAL units Tires pressures: bar or psi Tire air temperature: Celsius or Fahrenheit
	Focus TPMS Data	The values from the corresponding TPMS (Tire Pressure Monitoring System) sensor are displayed for each corner (FL, FR, RL, RR). If one or more sensor value is missing in the corresponding box a red "NA" warning will appear. Loss of communication due to missing sensor or low battery voltage.
	Tire Pressure Warning	The pressure value for each corner can be lit in a different colour: WHITE: tire pressure within set warning range BLUE: tire pressure below set warning range RED: tire pressure over set warning range No colour warning is set for air-temperature values, as they are always in blue.

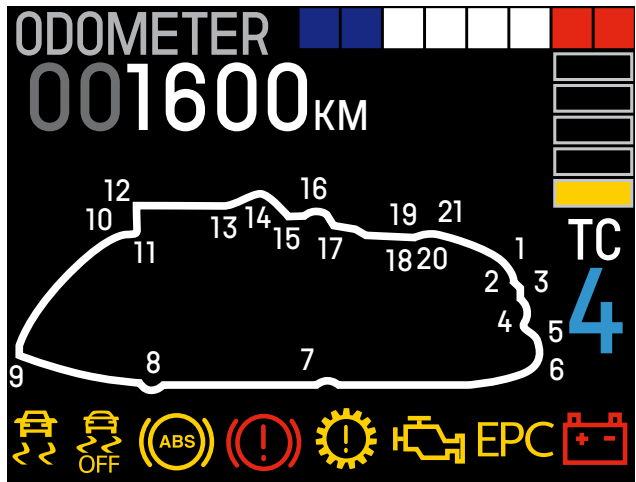


FIG.21 DRIVER MODE RIGHT DISPLAY 3RD VIEW

Driver mode right display - 3rd view

	Warning symbols	Fixed position for each warning symbol. If no warning symbol is active, this area is black.
	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.

	TC intervention	NO system actively intervening: all segments are black. TC intervention: all segments flash in YELLOW as long as TC is intervening. The number of the segments to be lit up depends of the TC map currently selected. (eg.: TC map=4, four yellow segments will flash when TC is in active control).
	TC map	Traction Control map dial position. 1 - maximum TC assistance -> 5 - minimum TC assistance
	Current odometer	Static value KM for METRIC units MI for IMPERIAL units
	Track	Map of the currently selected racetrack
	Track menu selection (OVERLAY)	Depress the "MRK" button and keep it depressed for at least 2 seconds while the engine is OFF and "Page 2" is selected, to open the "tracks menu" window on the left screen. Press the "ACK" button to scroll through the list, the current position in the track menu is highlighted in BLUE. To select the track and exit the menu depress the "MRK" button and keep it depressed for at least 2 seconds.

2. 3 PRO DRIVER MODE DISPLAYS

2. 3. 1 Pro Driver mode left display

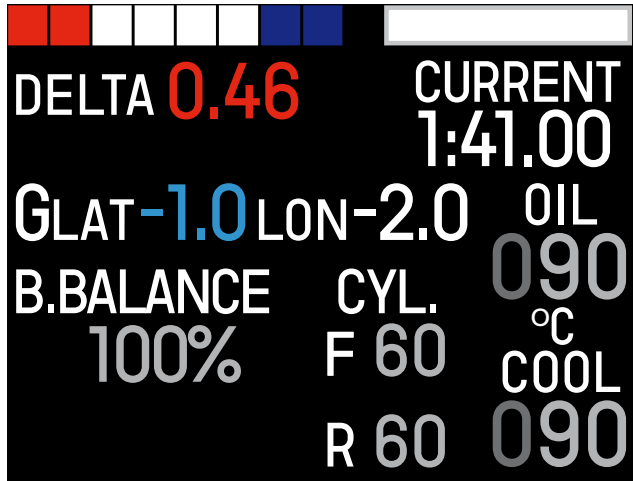


FIG.22 PRO DRIVER MODE LEFT DISPLAY 1ST VIEW

Pro Driver mode left display - 1st view

	Rev Limiter lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
--	--------------------	---

	ABS and TC intervention	NO system actively intervening: black space ABS intervention: one segment flash in WHITE as long as ABS is intervening. TC intervention: one segment flash in YELLOW as long as TC is intervening.
DELTA 0.46 DELTA -0.23	Current delta	Static value [s]: calculated at the finish line delta between last lap time and current lap time. Blue value: delta negative, faster Red value: delta positive, slower
CURRENT 1:41.00	Current lap time	Dynamic lap time value [s]
GLAT -1.0 LON -2.0	G meter	Dynamic longitudinal values always WHITE [g] Dynamic lateral values always BLUE [g]
B.BALANCE 100%	Brake balance	Static value [%]: calculates the brake distribution between front and rear circuits. To check the brake balance, turn on the "Ignition Switch" and apply at least 40 bar (580.15 psi) of pedal force to the brake pedal. Standard brake balance config is 57%.
CYL. F 60 F 870 F NA CYL. R 60 R 870 R NA	Brake pressure front and rear circuit	F - Brake pressure front circuit - dynamic value (bar for METRIC units / psi for IMPERIAL units / NA - not available) R - Brake pressure rear circuit - dynamic value (bar for METRIC units / psi for IMPERIAL units / NA - not available)
OIL 090 °C OIL 194 °F	Engine oil temperature	Dynamic value: °C for METRIC units °F for IMPERIAL units
°C COOL 090 °F COOL 194	Engine coolant temperature	Dynamic value: °C for METRIC units °F for IMPERIAL units

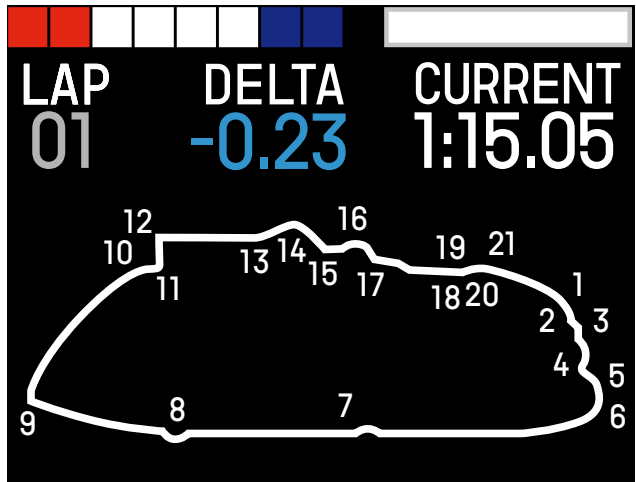


FIG.23 PRO DRIVER MODE LEFT DISPLAY 2ND VIEW

Pro Driver mode left display - 2nd view

	Rev Limiter lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
--	--------------------	---

	ABS and TC intervention	NO system actively intervening: black space ABS intervention: one segment flash in WHITE as long as ABS is intervening. TC intervention: one segment flash in YELLOW as long as TC is intervening.
LAP 01	Current lap	Starting from 1 and counting
DELTA -0.23 DELTA 0.46	Current delta	Static value (s): calculated at the finish line delta between last lap time and current lap time. Blue value: delta negative, faster Red value: delta positive, slower
CURRENT 1:15.05	Current lap time	Dynamic lap time value (s)
	Track	Map of the currently selected racetrack
	Track menu selection (OVERLAY)	Depress the "MRK" button and keep it depressed for at least 2 seconds while the engine is OFF and "Page 2" is selected, to open the "tracks menu" window on the left screen. Press the "ACK" button to scroll through the list, the current position in the track menu is highlighted in BLUE. To select the track and exit the menu depress the "MRK" button and keep it depressed for at least 2 seconds.

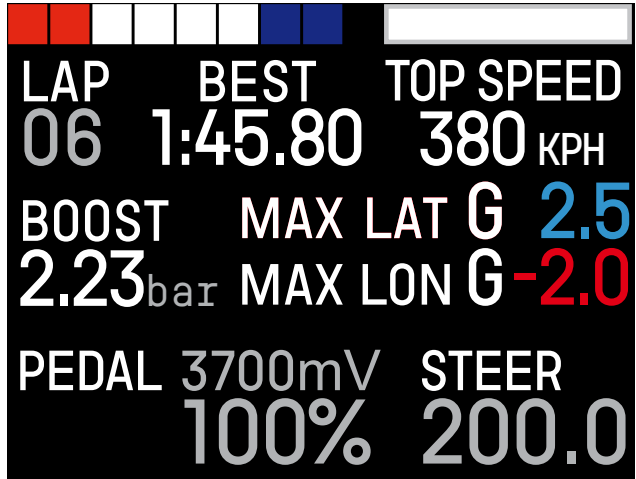


FIG.24 PRO DRIVER MODE LEFT DISPLAY 3RD VIEW

Pro Driver mode left display - 3rd view

	Rev Limiter lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
--	--------------------	---

	ABS and TC intervention	NO system actively intervening: black space ABS intervention: one segment flash in WHITE as long as ABS is intervening. TC intervention: one segment flash in YELLOW as long as TC is intervening.
LAP 06	Current lap	Starting from 1 and counting
BEST 1:45.80	Current best lap time	Best lap time achieved in session (s)
TOP SPEED 380 KPH TOP SPEED 236 MPH	Top speed reached	Static value: KPH - METRIC unit / MPH - IMPERIAL This channel shows the highest speed reached within a "Driving Cycle". The current value is set to zero whenever the engine is started or a ignition cycle is performed.
MAX LAT G 2.5 MAX LON G -2.0 MAX LAT G 2.5 MAX LON G 2.5	Maximum lateral and longitudinal accelerations achieved	Static values (g) RED colour for deceleration BLUE colour for acceleration These channels show the highest acceleration reached wihthin a "Driving Cycle". The current value is set to zero whenever the engine is started or a ignition cycle is performed.
BOOST 2.23 bar BOOST 32.3 psi	Boost pressure	Dynamic value: bar - METRIC units / psi - IMPERIAL units Current value of intake-air boost pressure from engine control unit
STEER 200.0	Steering angle	Dynamic value of steering angle [°]
PEDAL 3700mV 100%	Throttle pedal position	Dynamic value [%]: from 0% to 100% Dynamic value (mV): raw vlaue reading from engine ECU for throttle pedal position adjustment if needed

2. 3. 2 Pro Driver mode central display

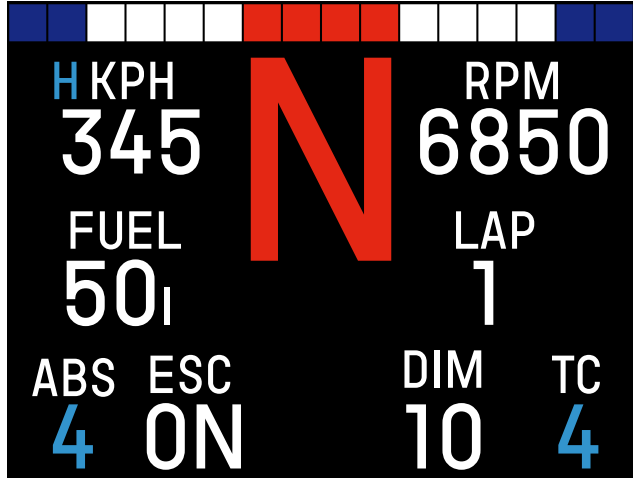


FIG.25 PRO DRIVER MODE CENTRAL DISPLAY WITHOUT WARNINGS/ALARMS/BANNERS

Pro Driver mode central display

	Shift Lights	The scale represents the last part of the rev counter when approaching the rev limit in the selected gear. The segments are filled progressively from left to right.
	Current car speed	Dynamic value: KPH - METRIC units / MPH - IMPERIAL units If the "H" blue symbol is on, it means the "high-speed mode/low downforce" setup is active.

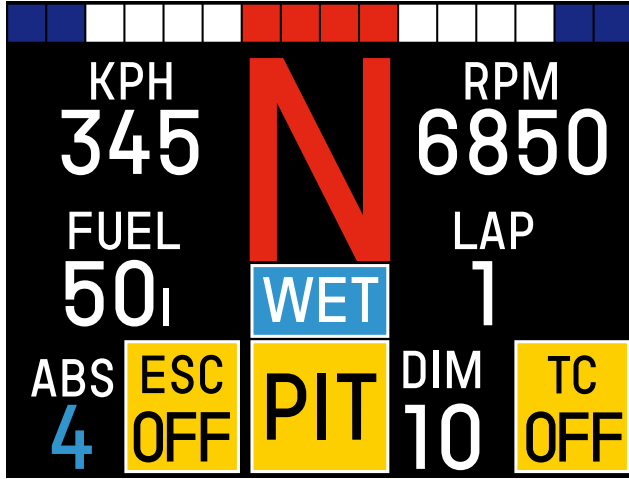


FIG.26 PRO DRIVER MODE CENTRAL DISPLAY WITH SELECTED WARNINGS

	Fuel remaining	Dynamic value (l): litres left. Refueling must be done with engine off. The fuel level is measured at engine start and remaining level is updated during drive. Value display changes colour to red when the "low fuel alarm" is active.
	Gearbox (GBX) selected gear	N - neutral R - reverse P - parking F - GBX failure 1 to 7 - gear ratios
	Revs	Dynamic value
	Current lap	Starting from 1 and counting
	ABS map	ABS map dial position. 1 - maximum ABS assistance -> 5 - minimum ABS assistance
	ESC mode	The "ESC ON" message will disappear during driving. The yellow banner will stay on permanently to warn the driver that ESC has been turned off: - TC rotary knob in position 4 or 5 (Pro Drivers maps settings) - ESC and TC off request via central control button
	WET mode indicator	Indicator, informing the driver that WET mode has been activated in all powertrain control units after driver request by pressing button on the centre console.

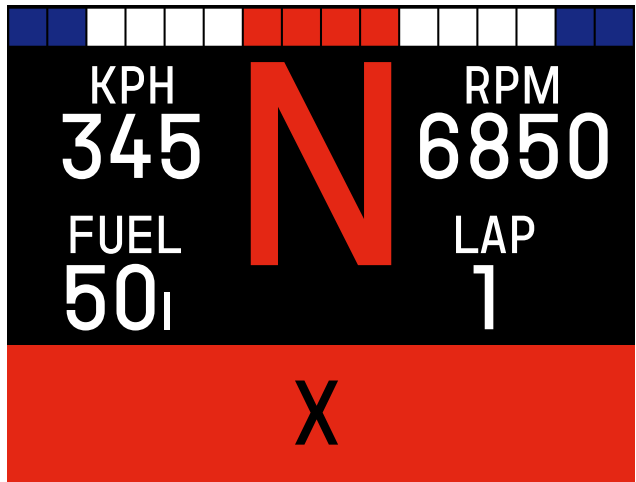


FIG.27 PRO DRIVER MODE CENTRAL DISPLAY WITH ALARM(S) OVERLAY

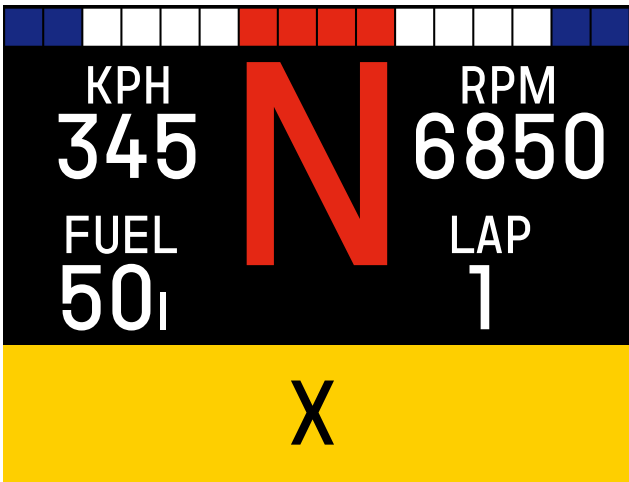


FIG.28 PRO DRIVER MODE CENTRAL DISPLAY WITH WARNING(S) OVERLAY

Pro Driver mode central display

	PIT speed engaged	Pit speed limiter activated by driver by pressing "PIT" button on the steering wheel: – the yellow icon will flash if the pit speed request has been acknowledged by engine ECU, but the speed is not yet limited meaning that depressing the accelerator will still cause the car to accelerate as normal, – as soon as the car speed is below 70 kph (43 mph), the icon will start flashing blue which means that regardless of accelerator pedal position the speed will be limited to 60 kph (37 mph), – by pressing again the "PIT" button, icon will disappear, speed is no more limited.
	Display brightness	Dynamic value: display brightness level from 0 (light off) to 10 (maximum brightness). Valid for all three displays. Display brightnees can be changed by pressing "BRI" button on steering wheel. The DIM value is only displayed if the button is pressed, otherwise it is not displayed.
	TC map	TC map dial position. 1 - maximum TC assistance -> 5 - minimum TC assistance Icon OFF if TC switched OFF TC off request via central control button
	Alarms overlay	Red box defined. Different messages can appear inside of it.
	Warnings overlay	Yellow box defined. Different messages can appear inside of it.

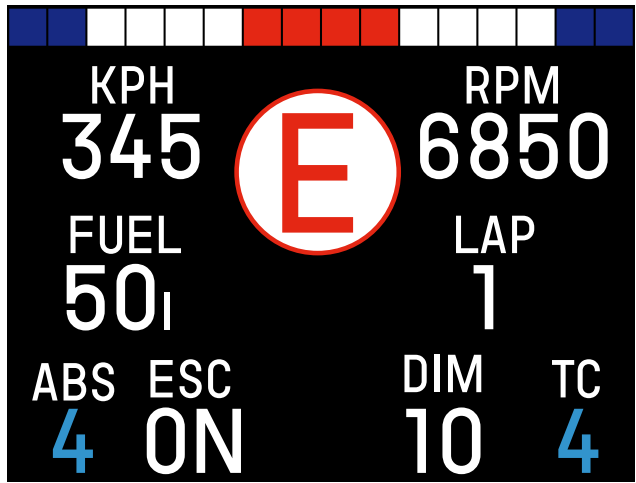


FIG.29 PRO DRIVER MODE CENTRAL DISPLAY WITH FIRE EXHINGUISHER OVERLAY

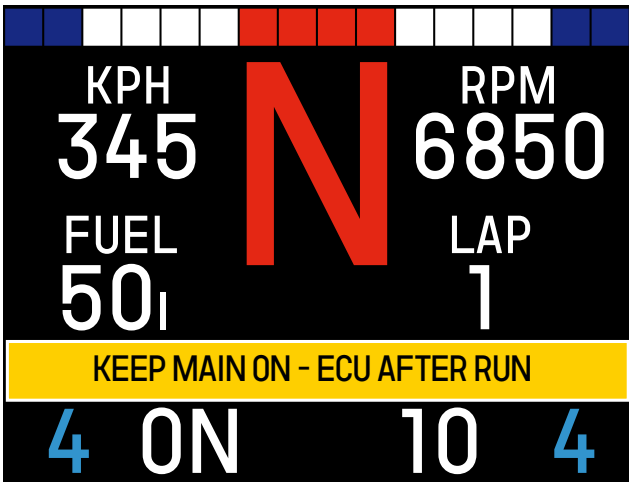


FIG.30 PRO DRIVER MODE CENTRAL DISPLAY WITH KEEP ENGINE ON - ECU AFTER RUN OVERLAY

Pro Driver mode central display

	Fire Ext overlay	Overlay icon to remind the driver to check the status of the fire extinguisher system. The icon appears continuously for 3 seconds in the centre of the display each time the "Ignition Switch" changes state. From OFF to ON: system should be ARMED before driving From ON to OFF: system should be put into TEST mode, driving session finished, see » page 138
	Engine ECU After Run overlay	Request to user to keep the "Master Switch" in ON position every time the "Ignition Switch" is moved to OFF position. This banner will be shown as long as the engine ECU needs power to save adaptive data (up to 300 seconds). NOTE: this routine is intended to optimise adaptive parameters on the engine side since the ECU is not designed to have the "Master Switch" signal interrupted as a standard operation. Engine components will not be damaged as a result of turning the "Master Switch" to the OFF position before the warning disappears.
	Unit system overlay	Banner to indicate which measuring unit has been selected by pressing the dedicated button on the centre console panel. The banner automatically disappears after 2 seconds.

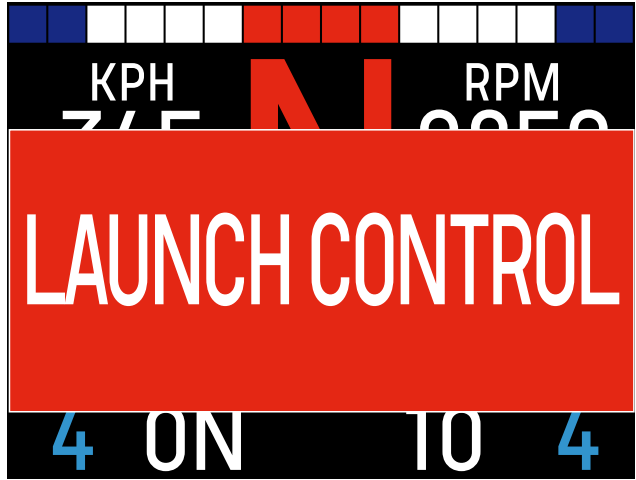


FIG.31 PRO DRIVER MODE CENTRAL DISPLAY WITH LAUNCH CONTROL OVERLAY

Pro Driver mode central display

	Launch Control overlay	Information to the driver "Launch Control" mode is engaged. Banner automatically disappears after 2 seconds.
	High Speed Mode overlay	While engine OFF and "Ignition Switch" is ON, by pressing "FLASH" button for >3 seconds the low downforce setup can be activated. After the "FLASH" button is pressed the orange popup is displayed for 10 seconds asking the driver to confirm the setup change by pressing "ACK" button within those 10 seconds. If the procedure is performed correctly a blue popup appears which confirms the setup change (360 kph [224 mph] limit removed and tire pressure warnings level changed). On top of that a small blue "H" symbol will show near speed indication on both display setups (see dedicated parts). As soon as the engine is off the high speed mode will be turned off (check "H" symbol on displays). If the procedure is not completed, a red popup appears which indicates that the setup has been disabled.

2. 3. 3 Pro Driver mode right display

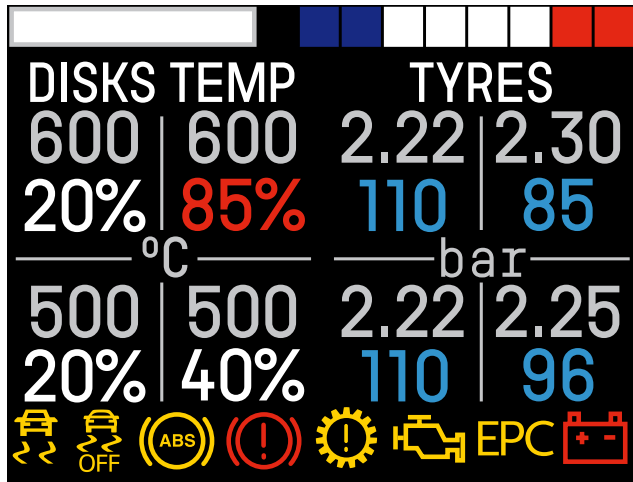


FIG.32 PRO DRIVER MODE RIGHT DISPLAY 1ST VIEW

Pro Driver mode right display - 1st view

	Warning symbols	Fixed position for each warning symbol. If no warning symbol is active, this area is black.
	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.

	ABS and TC intervention	NO system actively intervening: black space ABS intervention: one segment flash in WHITE as long as ABS is intervening. TC intervention: one segment flash in YELLOW as long as TC is intervening.
	Disk Temperature overview	Two configurations: METRIC or IMPERIAL units Disk Temperature: Celsius or Fahrenheit Oxidation rate over the lap (unitless - %)
	Disk Temperature and Oxidation Rate Warnings	The disk temperature value for each corner can be lit in a different colour: WHITE: disk temperature below warning limit RED: disk temperature over warning limit The disk oxidation rate over lap value for each corner can be lit in a different colour: WHITE: rate below warning limit RED: rate above warning limit
	Tire Pressures overview	Two configurations: METRIC or IMPERIAL units Tire pressures: bar or psi Tire air temperature: Celsius or Fahrenheit
	Focus TPMS Data	The values from the corresponding TPMS (Tire Pressure Monitoring System) sensor are displayed for each corner (FL, FR, RL, RR). If one or more sensor value is missing in the corresponding box a red "NA" warning will appear. Loss of communication due to sensor missing or low battery voltage.
	Tire Pressure Warning	The pressure value for each corner can be lit in a different colour: WHITE: tire pressure within set warning range BLUE: tire pressure below set warning range RED: tire pressure over set warning range No colour warning is set for air-temperature values, as they are always in blue.

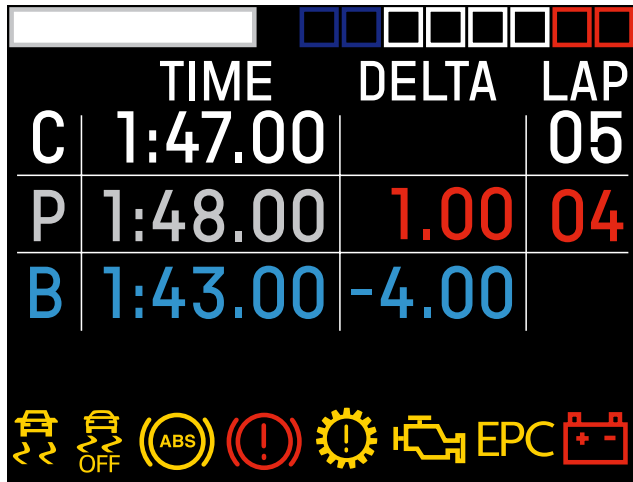


FIG.33 PRO DRIVER MODE RIGHT DISPLAY 2ND VIEW

Pro Driver mode right display - 2nd view

	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
	ABS and TC intervention	NO system actively intervening: black space ABS intervention: one segment flash in WHITE as long as ABS is intervening. TC intervention: one segment flash in YELLOW as long as TC is intervening.
	Lap times	C: Current laptime (s), dynamic value, always white P: Previous laptime (s), static value, calculated at the finish line, always grey B: Best laptime (s), static value, calculated at the finish line, always blue Delta time from previous (s), static value, calculated at the finish line, blue if <0 and red if >0 Delta time from best (s), static value, calculated at the finish line, blue if <0 and red if >0 Lap count of the current lap, static, always white. Lap count of the previous lap, static, always red.
	Warning symbols	Fixed position for each warning symbol. If no warning symbol is active, this area is black.

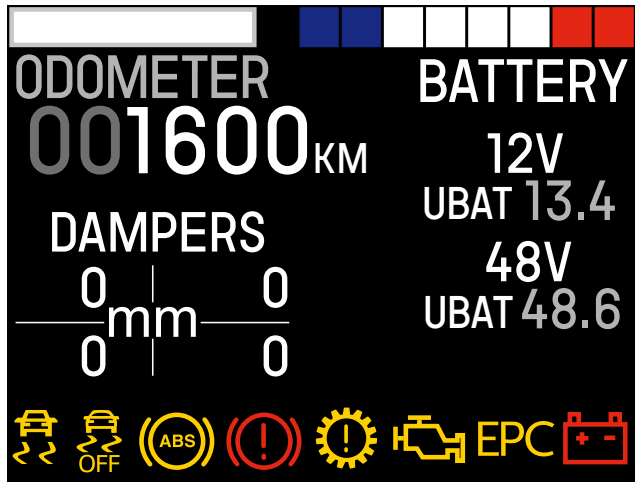


FIG.34 PRO DRIVER MODE RIGHT DISPLAY 3RD VIEW

Pro Driver mode right display - 3rd view

	Rev Limiter Lights	The scale represents the last part of the rev counter. The segments fill in the respective segment colour, progressively from right to left as the rev limit is approached in the selected gear.
	ABS and TC intervention	NO system actively intervening: black space ABS intervention: one segment flash in WHITE as long as ABS is intervening. TC intervention: one segment flash in YELLOW as long as TC is intervening.
	Current odometer	Static value KM for METRIC units MI for IMPERIAL units
	Dampers values	Dynamic values (mm/inch): linear displacement of front and rear dampers sensors. Front ones: 0-75 mm (0-2.95 inch)/Rear ones: 0-100 mm (0-3.94 inch) Can be reset by performing the "sensor zeroing" procedure during car setup changes.
	12 V/48 V Voltage Level	Dynamic values (V): battery voltages measured by the internal battery management system (BMS)
	Warning symbols	Fixed position for each warning symbol. If no warning symbol is active, this area is black.

2. 4 CHARGING DISPLAYS

2. 4. 1 Charging display - overlay

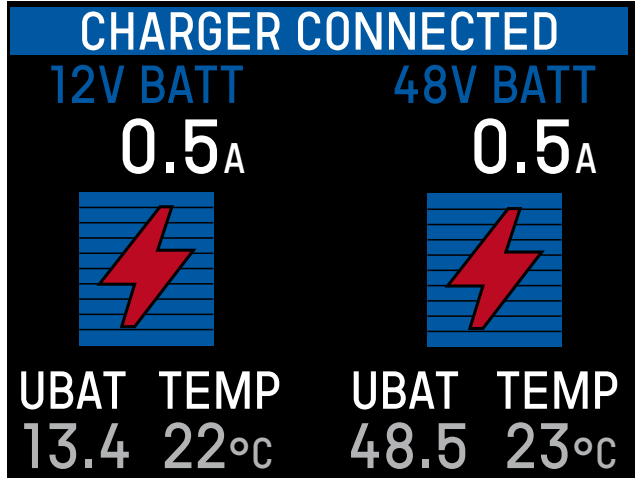


FIG.35 CHARGING DISPLAY OVERLAY PAGE

The overlay page may appears on the screen as soon as the "Master Switch" is OFF and a charger is connected to the car, only if the 48 V battery needs to be charged. The display is intended to inform the driver or mechanic information about the state of the batteries. Turn the "Master Switch" to ON, to return to the standard display layout.

12V BATT 0.5A	12 V Battery Current	Dynamic value (A): positive current if battery is discharging negative current if battery is charging
48V BATT 0.5A	48 V Battery Current	Dynamic value (A): positive current if battery is discharging negative current if battery is charging
	12 V/ 48 V Battery state of charge gauge	Dynamic value (graphic representation): Vertical gauge of the battery state of charge %. The bar is empty at 0% and full at 100%. Same behaviour for both batteries. The value is deliberately not shown in percent.
	12 V/48 V Charging Icon	Flashing icon on top of the state of charge gauges. The icon flashes whenever current is entering the batteries (negative current) meaning the battery is currently charging.
UBAT 13.4 UBAT 48.5	12 V/48 V Voltage Level	Dynamic values (V): displays the battery voltages measured by the internal battery management system (BMS)
TEMP 22°C TEMP 23°C TEMP 72°F TEMP 73°F	12 V/48 V Temperature	Dynamic values (°C for METRIC units, °F for IMPERIAL units): cells average measured temperature

2. 5 ALARM DISPLAYS

Symbol	Meaning
	Alarm Display Overlay can be placed over any page and will cover the page.
P FL LOW P FR LOW P RL LOW P RR LOW	Alarm Tire Pressure Low Press "ACK" button to snooze the Alarm for 30 s. Tire Pressure from TPMS reading is under the set pressure threshold while engine running.
P FL HIGH P FR HIGH P RL HIGH P RR HIGH	Alarm Tire Pressure High Press "ACK" button to snooze the Alarm for 30 s. Tire Pressure from TPMS reading is over the set pressure threshold while engine running.
LOW VOLTAGE	Alarm Battery Low Voltage Press "ACK" button to snooze the Alarm for 30 s. 12 V battery below the target idle voltage threshold or 48 V battery below the target idle voltage threshold

Symbol	Meaning
ALTERNATOR	Alarm Alternator Fault Alternator in ERROR state or No CAN communication with alternator
DC CONVERTER	Alarm DCDC Fault DCDC in SHUTDOWN state or No CAN communication with DCDC
12 V BAT COMM	Alarm 12 V Batt CAN No CAN communication with 12 V Battery
48 V BAT COMM	Alarm 48 V Batt CAN No CAN communication with 48 V Battery
ENGINE COMM	Alarm Engine CAN Fail No CAN communication with one or all of the following units: – Haldex Control Unit – GBX Control Unit – Engine Control Unit

Symbol	Meaning
ABS COMM	Alarm Brake CAN Fail No CAN communication with the braking system
T DIKS FL T DIKS FR T DIKS RL T DIKS RR	Alarm Disk Temp High The warning/alarm is displayed until the driver acknowlegdes it by pressing "ACK" button on the steering wheel. Press "ACK" button to snooze the Alarm for 30 s. Brake Disk Temperature above the set temperature threshold (1100°C/2012°F) or Brake Disk Oxidation rate is above the set threshold value, if one of the 4 corners has an oxidation level above 100%.
T CAL FL T CAL FR T CAL RL T CAL RR	Alarm Caliper Temp High Press "ACK" button to snooze the Alarm for 30 s. Caliper Temperature above the set temperature threshold (200°C/392°F).
LOW FUEL	Alarm Low Fuel Press "ACK" button to snooze the Alarm for 30 s. Fuel Level below set threshold, refuel as soon as possible
T HALDEX	Alarm Haldex Temp High Press "ACK" button to snooze the Alarm for 30 s. Haldex Coupling Oil Temperature above the set temperature threshold (115°C/239°F)

Symbol	Meaning
T STEERING	Alarm Oil Steer Temp High Press "ACK" button to snooze the Alarm for 30 s. Steering Line Oil Temperature above the set temperature threshold (120°C/248°F)
T ENGINE OIL	Alarm Engine Oil Temp High Press "ACK" button to snooze the Alarm for 30 s. Engine Oil Temperature above the set temperature threshold (135°C/275°F)
T COOLANT	Alarm Engine Coolant Temp High Press "ACK" button to snooze the Alarm for 30 s. Engine Coolant Temperature above the set temperature threshold (130°C/266°F)

2. 6 WARNING DISPLAYS

Symbol	Meaning
	Warning Display Overlay can be placed over any page and will cover the page.
P FL LOW P FR LOW P RL LOW P RR LOW	Warning Tire Pressure Low Press "ACK" button to snooze the Alarm for 30 s. Tire Pressure from TPMS reading is under the set pressure threshold while engine running and Corresponding alarm is not active
P FL HIGH P FR HIGH P RL HIGH P RR HIGH	Warning Tire Pressure High Press "ACK" button to snooze the Alarm for 30 s. Tire Pressure from TPMS reading is over the set pressure threshold while engine running and Corresponding alarm is not active

Symbol	Meaning
T DISK FL T DISK FR T DISK RL T DISK RR	Warning Disk Temp High The warning/alarm is displayed until the driver acknowlegdes it by pressing "ACK" button on the steering wheel. Press "ACK" button to snooze the Alarm for 30 s. Brake disk temperature above the set temperature threshold (1000°C/1832°F) and Corresponding alarm is inactive OR Brake disk oxidation rate is above the set threshold value, if one of the 4 corners has an oxidation level above 60% and Corresponding alarm is inactive
T CAL FL T CAL FR T CAL RL T CAL RR	Warning Caliper Temp High Press "ACK" button to snooze the Alarm for 30 s. Caliper Temperature above the set temperature threshold (180°C/356°F) and Corresponding alarm is inactive
12 V UVOLT	Warning Undervoltage Battery 12 V 12 V Battery undervoltage error. Connect charger to reset battery error. Steady Warning is display continuously, not flashing.
12 V SHORT	Warning Shortcircuit Battery 12 V 12 V Battery short circuit detected. Check cabling.

Symbol	Meaning
12 V OCURR	Warning Overcurrent Battery 12 V 12 V Battery overcurrent error. Disconnect charger or charger settings wrong.
12 V TEMP	Warning Overtemp Battery 12 V 12 V Battery current overtemperature error. Too hot in the passenger bay.
48 V UVOLT	Warning Undervoltage Battery 48 V 48 V Battery under voltage error. Connect charger to reset battery error.
48 V SHORT	Warning Shortcircuit Battery 48 V 48 V Battery shortcircuit detected. Check cabling.
48 V OCURR	Warning Overcurrent Battery 48 V 48 V Battery overcurrent error. Disconnect charger or charger settings wrong.
48 V TEMP	Warning Overtemp Battery 48 V 48 V Battery current overtemperature error. Excess temperature in the passenger compartment.
CONVERTER HOT	Warning DCDC Overhet DCDC Converter shutdown due to high temperature on the module. Excess temperature in the passenger compartment.

Symbol	Meaning
T STEERING	Warning Oil Steer Temp High Press "ACK" button to snooze the Alarm for 30 s. Steering Line Oil Temperature above the set temperature threshold (120°C/248°F) and Corresponding alarm inactive
T ENGINE OIL	Warning Engine Oil Temp High Press "ACK" button to snooze the Alarm for 30 s. Engine Oil Temperature above the set temperature threshold (130°C/266°F) and Corresponding alarm inactive
T COOLANT	Warning Engine Coolant Temp High Press "ACK" button to snooze the Alarm for 30 s. Engine Coolant Temperature above the set temperature threshold (126°C/258.8°F) and Corresponding alarm inactive

Symbol	Meaning
BRK OIL LOW	Warning Brake Oil Level Low Press "ACK" button to snooze the Alarm for 30 s. Brake fluid level in reservoir tank is low. Only active if "Ign SW" is ON.
ICE W LOW	Warning Water ICE Level Low Press "ACK" button to snooze the Alarm for 30 s. Water level in main circuit reservoir tank is low. Only active if "Ign SW" is ON.
WCAC W LOW	Warning Water WCAC Level Low Press "ACK" button to snooze the Alarm for 30 s. Water level in secondary circuit reservoir tank is low. Only active if "Ign SW" is ON.

2. 6. 1 Units

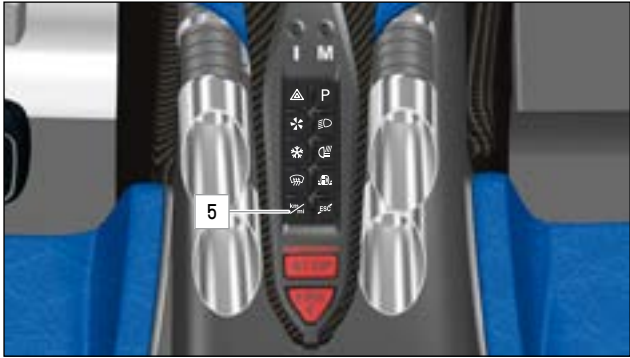


FIG.36 BUTTON TO SWITCH BETWEEN METRIC AND IMPERIAL UNITS FOR DISPLAY ON THE CENTRE CONSOLE

5 Units Button

- Press button 5 (» Fig.36) on centre console to switch between metric and imperial units.
- ☑ The selected unit is shown in the display.

NOTE
Button 5 (» Fig.36) lights up only when pressed.

Press button 5 (» Fig.36) on the centre console to toggle between the following unit combinations:

- km/h - mph
- bar - psi
- °C - °F.

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3 COMFORT AND CONVENIENCE



3. 1 CLIMATE CONTROL

3. 1. 1 Air conditioning and fan controls

The fan and air conditioning controls are located on the centre control.



FIG.37 DRIVER FAN BUTTON ON THE CENTRE CONSOLE

2 Driver Fan Button: three speeds available (off-low-medium-high)

- ▶ Press the Driver Fan button 2 (» Fig.37) to adjust the fan speed.
Keep pressing to switch between off, low, medium, and high.
- ☑ The fan speed has 3 settings.

NOTE

Do not place any food, medicines or other temperature-sensitive items in front of or on top of the air vents. Heat or cold-sensitive foods, medicines and objects can be damaged by the air output or could be rendered unusable.

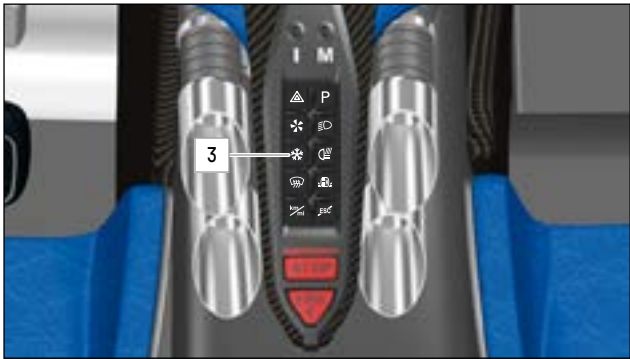


FIG.38 A/C BUTTON ON THE CENTRE CONSOLE

3 A/C Button

 **WARNING**

High air temperatures cause driver fatigue and reduce driver alertness which could result in accident, serious injury, or death. Ensure you have good airflow and comfortable temperatures.

- ▶ Press the A/C button 3 (» Fig.38) to switch on the air-conditioning system.
- ▶ A/C button 3 (» Fig.38) flashes if A/C is in standby (activation conditions not met) and is lit continuously if the air-conditioning system is on.
- ☑ The air-conditioning system is switched on.

NOTE

The air-conditioning system does not work in drive position N or below the pit speed of 30 km/h (18 mph).

NOTE

Only press the A/C button 3 (» Fig.38) at over 30 km/h (18 mph), with the fan 2 (» Fig.37) switched on and if sufficient power is available.

3. 1. 2 Air vents

 **WARNING**

Stale air causes driver fatigue and reduces driver alertness which could result in accident, serious injury, or death.

 **WARNING**

Objects of any kind can clog or damage the air outlet pipes. Sharp-edged objects can damage the pipes. The pipes can become blocked and a sufficient air supply is then no longer guaranteed.

 Do not insert any objects into the air outlet pipes.

NOTE

Do not place any food, medicines or other temperature-sensitive items in the air outlet pipes. Heat or cold-sensitive foods, medicines and objects can be damaged by the air output or could be rendered unusable.



FIG.39 FOUR AIR OUTLET PIPES NEXT TO THE CENTRE CONSOLE

- 1

Air outlet pipes for the driver's side
- 2

Air outlet pipes for the passenger side

-  Move the pipes 1 and 2 (» Fig.39) carefully and gently into the desired position.
-  The air outlet pipes are adjusted.

NOTE

The pipes cannot be rotated around their own axis.

3. 2 DISPLAYS BRIGHTNESS

The brightness button 12 (» Fig.40) can be used to select different display brightness levels.



FIG.40 BRIGHTNESS BUTTON ON THE STEERING WHEEL

- 12

Brightness. Control display brightness

-  Press button 12 (» Fig.40) on the steering wheel to adjust the brightness of the display.
-  The selected display brightness is set.

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4 BEFORE YOU DRIVE



4.1 GENERAL

Before driving, you must familiarize yourself with your BOLIDE and you must read this entire manual and check online for updates and changes.

www.bugatti.com/as/owner-manual-bolide



 **WARNING**

Your BOLIDE is designed for adults. Persons under 40 kg (88 lbs) and 150 cm (4'11") cannot sit safely in the seat and racing harness, regardless of age. Never allow anyone who does not fit properly to ride in your BOLIDE. Such occupants risk serious injury and death.

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ Use only BUGATTI approved components and parts (e.g., wheels, tires, brake disks) of the correct size and specification.
- ▶ Ensure all parts are in good condition and are not past their useful lives.

 **WARNING**

Modifying your BOLIDE could degrade performance and cause malfunctions which could endanger you and your co-driver, others, and your BOLIDE. Failure to heed this warning could result in serious injury or death.

 **WARNING**

Whenever possible, use genuine BUGATTI parts. Aftermarket parts may not be of like kind and quality. They may damage your BOLIDE and may lead to accident, serious injury, and death.

 **WARNING**

Your BOLIDE is a high-performance vehicle. Your BOLIDE, its driver, and its co-driver must be in top condition. The driver must never be distracted or impaired. Intoxicants (e.g., alcohol, drugs, medications) and distractions (e.g., cell phones, cameras) interfere with awareness, concentration, recognition, judgment, and reaction times. Do not drive or co-drive if impaired. Failure to heed this warning could result in accident, serious injury, or death.

 **WARNING**

Remove all loose items in your BOLIDE. Loose items can fall under the driver's feet. They can move within the vehicle and distract the driver. They can become projectiles in a crash. Failure to heed these warnings could lead to serious injury and death.

 **WARNING**

In a crash, the effective mass of an unsecured object increases. A 1 kg (1-pound) object can have an effective mass of 30 kg (30 pounds) or more. Items that may become unsecured in a crash can lead to serious injury and death.

4. 2 DOORS

4. 2. 1 General

Your BOLIDE does not have any vehicle security such as door locks, an alarm system or an immobilizer system. Your BOLIDE does not require a key to switch on the ignition or start the engine. Do not allow unauthorized people unsupervised access to your BOLIDE. Lock it in a secure, protected location whenever it is unused and unsupervised.



WARNING

You are responsible for keeping unauthorized and unsupervised people away from your BOLIDE to keep them from entering the BOLIDE, powering it on, starting the engine, and driving. Failure to follow these instructions could lead to accident, serious injury, and death.

Your BOLIDE has two manual doors which can be opened and closed from both the inside and outside.

When opening and closing doors, remember that wind and gravity (slopes) will affect opening and closing force and speed.



WARNING

Failure to follow these instructions could lead to accident, serious injury, and death.

- ▶ Keep people, body parts, and objects clear of the door and door opening when operating the door. They could get caught, hit, trapped, and harmed.
- ▶ Ensure that all doors are latched before driving. Unlatched doors can swing open.



CAUTION

Do not slam the door. Do not push on the glass to close the door. It may break.

Failure to follow this instruction could damage your BOLIDE.

4. 2. 2 Opening and closing doors from the outside



WARNING

A door that is not properly closed can suddenly open when the car is being driven and cause serious injury.

- ▶ Stop the vehicle immediately and close the door.
- ▶ When closing the door, ensure that it closes safely and is fully shut. The closed door must seal flush with the surrounding body parts.
- ▶ Only open or close doors if no one is in the way.



WARNING

A door kept open on the door stay can close itself in windy conditions and on inclines and can cause injury.

- ▶ When opening and closing, always grasp the door handle firmly.



WARNING

Always stand to the rear of the door before opening it, as the opening action may cause injury. The speed that the door opens is affected by ambient temperature.



WARNING

Keep hands and other objects clear of the door edge when closing.

There is no anti-trap feature preventing the door closing if an item or body part is trapped between the door and the door aperture, serious injury and vehicle damage may occur.



WARNING

Ensure no person or object can be trapped as the door closes.



CAUTION

Do not press against any windows. They may break.

Do not force the door closed. That could damage the door or door seals.

NOTE

Do not force the door closed, the door aperture or door seals could be damaged.

NOTE

The door opens outwards, ensure sufficient side clearance before opening a door, see vehicle dimensions » page 243.

NOTE

Take care while closing the door. Do not put your fingers at the rear edge of the door. It can be trapped to the side panel and cause injury.

There is a recessed handle (» Fig.41) at the rear, trailing edge of each door exterior. Pull the handle to open the door.

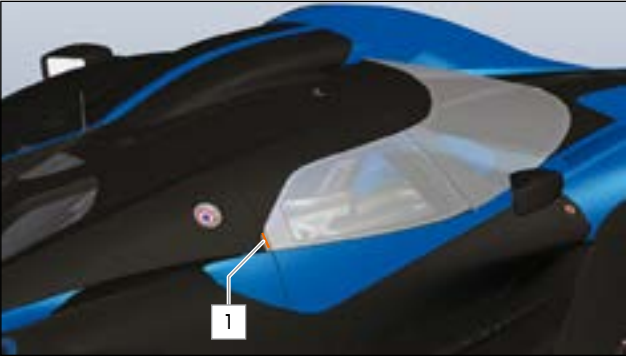


FIG.41 RECESSED HANDLE AT THE BACK OF THE DOOR

1 Handle recess

To facilitate the way to get in and out the car, the driver and/or passenger are allowed to step on the seat.

Open

- Pull handle 1 (» Fig.41) to unlatch the door.
- ☑ The door lock releases and the door can be opened.

Close

- To close the door, first ensure that your BOLIDE is in parking position and that it and the engine are powered off (» page 150).
- Exit the vehicle, ensure that the opening is clear of people, body parts, and objects.
- Securely close the door by pushing on the door itself (» Fig.41) Do not slam the door.
- ☑ The door is closed.

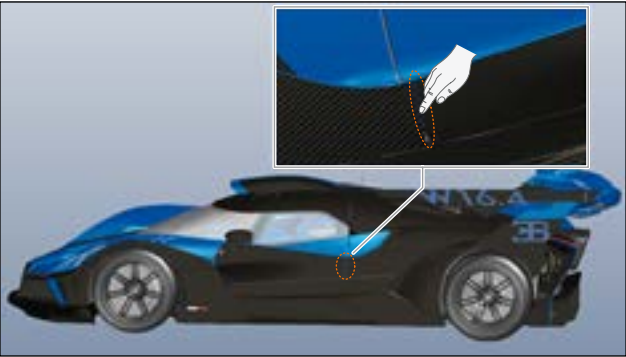


FIG.42 REAR EDGE OF THE DOOR

4. 2. 3 Opening and closing doors from the inside

 **WARNING**

The interior soft handle 1 (» Fig.43) must not be used to close the door from inside.
The team must close the door from the outside.

 **CAUTION**

Do not push on the door glass. It may break.

A door can be opened from inside the vehicle at any time. Open the doors only if the vehicle is stationary and it is safe to do so.

NOTE

The door opens outwards, ensure sufficient side clearance before opening a door, see vehicle dimensions » page 243.

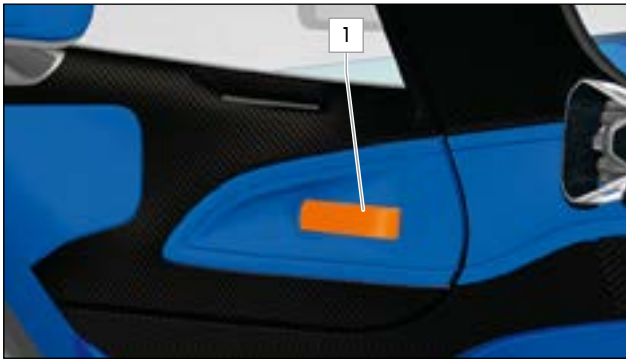


FIG.43 INTERIOR SOFT HANDLE

1 Interior soft handle

To facilitate the way to get in and out the car, the driver and/or passenger are allowed to step on the seat.

Open

- ▶ Pull the interior soft handle 1 (» Fig.43) forward until the door is unlocked.
- ▶ Push the door outwards until the team opens the door outwards and upwards.
- ☑ The door is open.

Close

- ▶ To close a door from the inside, make sure the opening is clear of people and objects.
- ▶ The team **must** close the door from the outside.
- ☑ The door is closed.

4. 2. 4 Emergency door release

 **WARNING**

Always stand to the rear of the door before opening it, as the opening action may cause injury. The speed that the door opens is affected by ambient temperature.

Each BOLIDE door has two emergency releases to detach the door from the vehicle. Use these only in emergencies. These releases detach the door completely so that it is off its hinges.

 **CAUTION**

Removing a door with an emergency release is likely to scratch the surface or otherwise damage it.

 **WARNING**

Lift and move a door with caution, taking care to prevent injury to yourself and others. Failure to heed this warning could lead to serious injury.

 **WARNING**

Do not attempt to replace a door yourself after an emergency release. Please contact an Authorised BUGATTI Partner. Operating the vehicle with an improperly replaced door could result in accident, injury, or death.

4. 2. 5 Emergency door release pins (exterior)

Your BOLIDE has pins for removal of each door from the outside. There is a pin below the exterior mirror on each door (» Fig.44). There is also another pin on the roof above each door (» Fig.45).

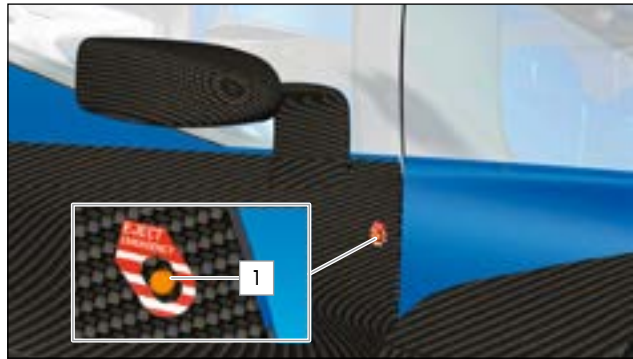


FIG.44 EMERGENCY RELEASE PIN ON THE DRIVER AND PASSENGER DOOR BELOW THE EXTERIOR MIRROR

1 Emergency release pin



FIG.45 EMERGENCY RELEASE PIN ON THE DRIVER AND PASSENGER SIDE ON THE ROOF

2 Emergency release pin

- Pull the emergency release pins 1 (» Fig.44) and 2 (» Fig.45) to unlatch the door.
- ☑ The door lock is then released so that the door can be lifted out of the bracket by hand.

NOTE

First release the door from the anchorage points at the bottom, then at the back pulling the door handle, and then the pin at the top.

4. 2. 6 Emergency door release levers (interior)

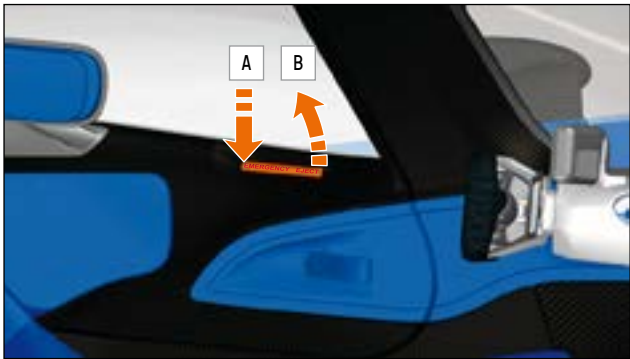


FIG.46 EMERGENCY RELEASE LEVER ON THE DRIVER AND PASSENGER SIDE

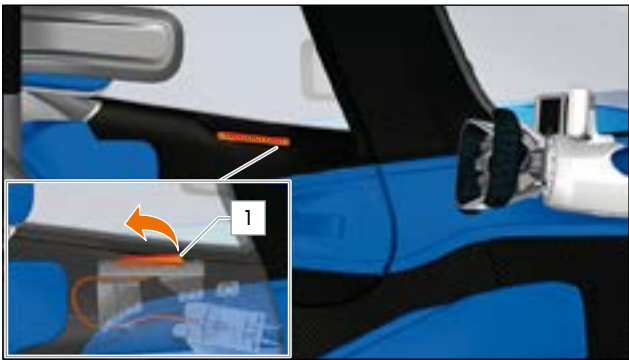


FIG.47 EMERGENCY RELEASE LEVER OPEN ON THE DRIVER AND PASSENGER SIDE

1 Emergency release lever

1. Depress the lever at rear position A (» Fig.46) to release it. The lever is moved to upper position B (» Fig.46).
2. When lever 1 (» Fig.47) is in the released upper position, pull lever 1 (» Fig.47) in the **direction of the arrow** to unlock the mechanism.
3. When unlocked push hard against the door to dislodge it from the vehicle.
 - ☑ The door is completely lifted out of the vehicle.



FIG.48 VEHICLE WITH COMPLETELY LIFTED OUT DOOR

NOTE

To ensure that the door emergency release works smoothly, the mounting points must be cleaned of dirt and greased before the door is re-hung.

NOTE

There are cables in the door for unlocking, these are secured against unhooking by black plastic clips. These clips should be replaced every 5 years as they can become brittle.
Please contact an Authorised BUGATTI Partner.

4. 3 SEATS

4. 3. 1 Seat adjustment

Your BOLIDE comes with a driver and co-driver seat (» Fig.49).
During a drive, forces are constantly acting on the driver. A perfect seating position is therefore an absolute must. The smallest pressure points lead to pain or muscle cramps. That is why every driver needs their own seat, precisely adapted to their body mass.

! WARNING

- Failure to heed these warnings could lead to serious injury and death.
- ▶ Never use an ill-fitting seat.
 - ▶ Never use a seat that is incompatible with your BOLIDE.
 - ▶ Never use a seat that is not secured properly within your BOLIDE.
 - ▶ Never install a child or booster seat on top of the passenger seat. Such seats will not fit. They cannot be secured safely. They can come loose during operation or a crash, resulting in distraction, injury, and accident.
 - ▶ Never carry objects on the passenger seat. They cannot be secured safely. They can come loose during operation or a crash, resulting in distraction, injury, and accident.

! WARNING

- Using a seat not adapted to suit the driver can cause an accident and serious injury.
- ▶ Change the driver's seat at driver changeover.
 - ▶ The seat locking points must be kept free of dirt and foreign matter.
 - ▶ Never attempt to repair, modify or remove the seats yourself. Only have repairs to the seats carried out by an Authorised BUGATTI Partner.

! WARNING

Child seats or child restraints must not be fitted to this vehicle.

NOTE

If you need a new seat, please contact an Authorised BUGATTI Partner.



FIG.49 BASIC SEAT SHELL

4. 3. 2 Expiry date

Seats are made of materials that degrade over time. Usage increases degradation and wear. Each seat has a limited effective life. The label with the FIA expiry date is under the padding on the seat bottom. Replace each seat before its expiry date.

The expiry date is an end date. It is not a guarantee that the seat is fit until that date. Seats can be worn out more quickly. Seats can be damaged. Have your seats inspected by a qualified person before each event. If you determine or merely suspect that the seat is damaged, weakened, or unfit, then do not use it. Have it replaced immediately.

! WARNING

- ▶ Using a degraded, damaged, or expired seat is dangerous. It could lead to malfunction, failure, accident, serious injury, and death.
- ▶ Seats cannot provide protection in all crashes. Some crashes are so severe that the seat cannot withstand crash forces or restrain the occupant.
- ▶ BOLIDE is not responsible for any seat other than the seat installed in the vehicle, as originally installed.

4. 3. 3 Installation of seats

BUGATTI offers you a choice of three different seat sizes.

NOTE

If you need a new seat, please contact an Authorised BUGATTI Partner.

4. 4 HARNESSSES

4. 4. 1 Overview

Your new BOLIDE comes with a six-point racing harness that is fitted to each seat and that complies with FIA Standard 8853-2016. A properly fitted, properly worn, good condition racing harness secures the occupant to the seat during driving. It can secure the occupant to the seat during certain collisions. Each occupant must fit properly in and be secured safely and properly in the harness before your BOLIDE is driven.

Your BOLIDE’s restraint and seat are designed to be used with a helmet/neck restraint device such as a HANS®. While there may be occasions in which one might want to drive without a helmet/ restraint device when it is safe to do so, BUGATTI recommends that each occupant wear a proper-fitting helmet and restraint device.

! WARNING

Failure to heed these warnings could lead to serious injury and death.

- ▶ Never drive unless each occupant is secured safely and properly in the seat and racing harness.
- ▶ Each occupant should also wear a proper-fitting helmet and HANS® whenever possible.
- ▶ Never drive at speed or in competition unless each occupant is wearing a proper-fitting helmet and helmet/ neck protection.

4. 4. 2 Racing harness

Your BOLIDE is designed for adults. Persons under 40 kg (88 lbs) and 150 cm (4’11”) cannot sit safely in the seat and racing harness, regardless of age. Never allow anyone who does not fit properly to ride in your BOLIDE.

Each seat and harness is designed for a single adult. Never put more than one person in a harness. Do not carry another person atop the harnessed occupant. Such a rider cannot be restrained in a crash.

The BOLIDE racing harness is not designed for pregnant persons. The webbing and latch will be loaded by the occupant in a crash, and such loads can injure or kill a fetus.

Harnesses are made of materials that degrade over time. Usage increases degradation and wear. Each harness has a limited effective life. The FIA expiry date is on a label on the harness. Replace each harness before its expiry date.

The expiry date is an end date. It is not a guarantee that the harness is fit until that date. Harnesses can be worn out more quickly. Harnesses can be damaged. Have your harnesses inspected by a qualified person before each event. If you determine or merely suspect that a harness is damaged, weakened, or unfit, then do not use it. Have it replaced immediately by an Authorised BUGATTI Partner.

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ Persons who cannot fit safely and securely in the seat and racing harness must never ride in your BOLIDE.
- ▶ Using a degraded, damaged, or expired harness is dangerous. It could lead to malfunction, failure, accident, serious injury, and death.

 **WARNING**

- ▶ Harnesses cannot provide protection in all crashes. Some crashes are so severe that the harness cannot withstand crash forces or restrain the occupant.
- ▶ BOLIDE is not responsible for any harness other than the harness installed in the vehicle, as originally installed.

 **WARNING**

The risk of serious or fatal injury is increased by not wearing safety belts or not correctly adjusting fastened safety belts. Safety belts can only offer optimum protection if the safety belts are worn and adjusted correctly.

- ▶ Safety belts are the most effective way to reduce the risk of serious or fatal injury in an accident. To protect the driver and all vehicle occupants, safety belts must always be worn correctly when the vehicle is moving.
- ▶ Every occupant in the vehicle must take up their correct seating position, correctly wear the safety belt for that seat and wear it correctly while driving. This applies to all passengers.
- ▶ Do not drive off until all passengers are wearing their seat belts correctly.
- ▶ Only insert the buckle tongue into the belt buckle of the correct seat and make sure it is securely engaged. Using belt buckle of another seat reduces the protective effect and can cause serious injury.
- ▶ Prevent foreign bodies and liquids from entering the belt buckle through the slot for the buckle tongue. This can have a detrimental effect on how well the buckle receptacles and safety belts work.
- ▶ Never take off your safety belt while driving.
- ▶ A safety belt should only ever be worn by one person.
- ▶ Racing belts are not suitable for use by children.

 **WARNING (CONTINUED)**

- ▶ Never travel with a baby or young child on your lap nor cover them with the safety belt.
- ▶ Never drive while wearing heavy, loose clothing, e.g. an overcoat over a jacket as this will have a detrimental effect on your seating position and the function of the safety belt.

 **WARNING**

Racing belts are not suitable for a pregnant occupant.

 **WARNING**

Damaged safety belts are a major risk and can cause serious or fatal injury.

- ▶ Never damage the safety belt by trapping it in the door or the seat mechanism.
- ▶ If the fabric of the belt or other parts of the safety belt are damaged, then the safety belts could tear in the event of an accident or sudden braking manoeuvre.
- ▶ Have damaged safety belts replaced immediately with new safety belts which have been approved for the vehicle by BUGATTI. Safety belts that have been stressed, and therefore stretched, in an accident must be replaced. Replacement may be necessary even if damage cannot be clearly seen. Additionally, the anchor points of the safety belts should be checked.
- ▶ Never attempt to repair, modify or remove damaged safety belts yourself. Only have repairs to safety belts, retractors and buckle parts carried out by an Authorised BUGATTI Partner.

4. 4. 3 Expiry date

The racing belts have a limited effective life. The racing belts have a label stating the FIA expiry date and must be replaced on or before the date indicated.

4. 4. 4 Putting on or removing your racing harness



WARNING

Incorrectly positioned safety belts can cause serious or fatal injury in an accident.

- ▶ Safety belts only offer optimum protection if the backrest is upright and the safety belt is worn correctly for the body size.
- ▶ Removing your safety belt while driving can lead to serious or fatal injury in the event of an accident or braking manoeuvre!
- ▶ Contact between the adjuster and the seat or collar of a head and neck protector (e.g. HANS® by SCHROTH®) during an accident can cause the belt to loosen in the adjuster or the belt to shift in relation to the adjuster. As a result, the belt may be cut or even fail.



FIG.50 SAFETY BELTS: CROTCH, LAP AND SHOULDER BELTS

Both seats in the vehicle feature a 6-point restraint system. This complies with the FIA standard 8853-2016. Every time you fasten your belt, make sure that the leg, lap, and shoulder belts are in the correct position and make sure they are engaged in the rotary buckle.

To achieve the best possible protection during an accident:

- The safety belt system must never be used by a person who weighs less than 40 kg (88 lbs) or who is shorter than 150 cm (4'11"), regardless of age.
- The safety belt system must only be used by one person at a time.
- The lap belt must never be used without the shoulder belts and crotch belts.

- Always ensure that all safety belts are routed through the seat openings of the racing seat.
- The safety belts must never be worn twisted.
- The lap belt must always be worn low below the hip, bent towards the thigh.
- The pressure applied by the two shoulder belts must be spread evenly across the chest.
- The safety belts must never be worn over thick, bulky clothing, as this prevents correct positioning and tight adjustment of the belts.
- Hard or even breakable objects (sunglasses, pens, other jewellery, keys and the like) must never be placed between the safety belts and the body. Such objects can cause injury.
- The safety belts must never rest on sharp edges or chafe.
- The safety belts must never be damaged by being caught in doors.

Putting on your racing harness



FIG.51 CORRECT SAFETY BELT POSITION

Put on your safety belt every time before setting off.

- ▶ Adjusting pedals and passenger foot supports (« page 128).
- ▶ Adjusting the steering column (« page 126).
- ▶ Adjust the length of the shoulder belts so that you do not pull the rotary buckle when putting the belt on.
- ▶ Put on the lap belt and pull it tight.
- ▶ Make sure that the turn lock is centred in front of the body.
- ▶ Lay the crotch belts flat on the thighs.
- ▶ Pass the loop ends through the D-rings on the lap belt from below.

- ▶ Hook the end loops into the left or right shoulder belt tongue accordingly and insert the shoulder belt tongue into the slots provided on the turn look. Make sure that the right and left shoulder belts are not reversed.
 - ▶ First pull the crotch belts tight.
 - ▶ Pull the shoulder belts tight.
 - ▶ Make sure that the shoulder belts rest properly on the head and neck protection (e.g. HANS®). The quick adjusters must rest on the lower end of the head and neck protection, measured max. 70 mm (2.75 inches) upwards from the lower yoke end.
- ☑ The safety belt is being worn correctly.

Racing harness position

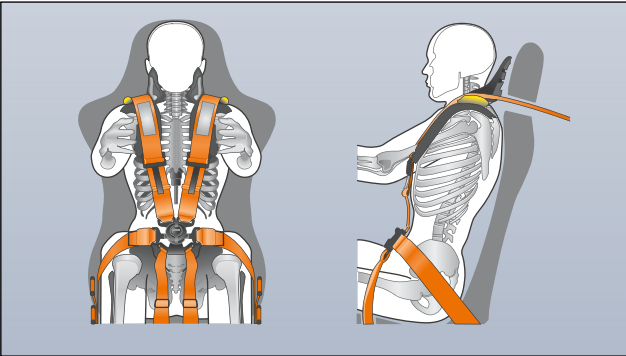


FIG.52 CORRECT SAFETY BELT POSITION

Only if the safety belt is in the correct position, will it provide optimal protection in the event of an accident and reduce the risk of serious or fatal injury. So always wear your safety belt and make sure it is positioned correctly.

An incorrect seating position can cause serious or fatal injury (> page 112).

Correct safety belt position

- The part of the safety belt running over your shoulder should always run over the middle of your shoulder and never over your neck or your arm, never under your arm or behind your back (> Fig.52).
- The lap belt portion of the safety belt must be positioned as low as possible across pelvis and never over the abdomen (> Fig.52).
- Always make sure the belt lies flat and snug on your body. Tighten the belt if necessary (> Fig.52).

 **WARNING**

Racing belts are not suitable for a pregnant occupant.

 **WARNING**

Incorrectly adjusted safety belts can cause serious injury in the event of an accident or sudden braking or driving manoeuvre.

- ▶ Safety belts only offer optimum protection if the backrest is in an upright position and the safety belt is worn correctly.
- ▶ The safety belt itself or a loose safety belt can cause serious injury if the safety belt moves from hard parts of the body in the direction of soft parts, e.g. your abdomen.

 **WARNING (CONTINUED)**

- ▶ The part of the safety belt running over your shoulder should always run over the middle of your shoulder and never over your neck or under your arm. The safety belt must lie flat and snug on the occupant's upper body.
- ▶ The lap belt portion of the safety belt must be positioned as low as possible across pelvis and never over the abdomen. Make sure the belt lies flat and snug across your pelvis. Tighten the belt if necessary.
- ▶ Racing belts are not suitable for a pregnant occupant.
- ▶ Racing belts are not suitable for use by children.
- ▶ Do not twist the belt when wearing it.
- ▶ Never use your hand to hold the safety belt away from your body.
- ▶ Never wear belts over rigid or breakable objects, such as glasses, pens, or keys.
- ▶ Never change the position of the belt by using comfort clips, anchor points or similar devices.

Twisted racing harness

If the seat belt can only be pulled out of the belt guide with difficulty, the seat belt may have become twisted in the side panel by being retracted too quickly when taking the seat belt off.

- ▶ Carefully and slowly pull the seat belt out fully by the buckle tongue.
- ▶ Slowly remove the twist in the safety belt and slowly guide the belt back into the retractor.
- ☑ The safety belt is no longer twisted.

If you cannot untwist the seat belt, put the seat belt on anyway. In this case the twist must not be in a belt area that is placed directly on the body! Immediately contact an Authorised BUGATTI Partner to have the twist removed.



WARNING

Incorrectly positioned safety belts can cause serious or fatal injury in an accident.

- ▶ Safety belts only offer optimum protection if the backrest is upright and the safety belt is worn correctly for the body size.
- ▶ Removing your safety belt while driving can lead to serious or fatal injury in the event of an accident or braking manoeuvre!

Use HANS® (Head-And-Neck-Support)

When the BOLIDE was designed, the possible use of a HANS® system in accordance with FIA specifications was taken into consideration.

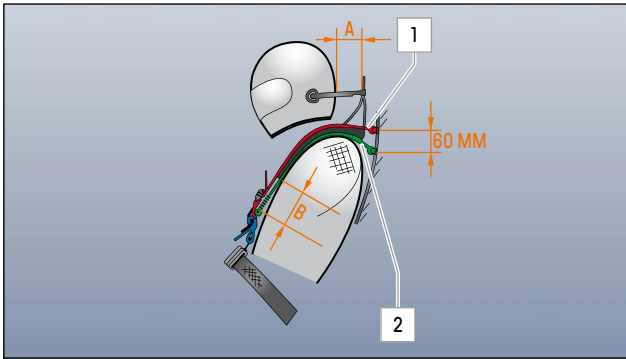


FIG.53 CORRECT DISTANCE BETWEEN THE "HANS BELT" AND THE "BODY BELT"

- 1 HANS Belt
- 2 Body Belt

The connection between the "HANS belt" 1 (» Fig.53) and the "BODY belt" 2 (» Fig.53), must be at a minimum distance from the yoke ends of the HANS®. This specific minimum distance is important to ensure the effectiveness of the head and neck protection during an accident.

- The sum of the two values **A** and **B** from the adjacent drawing must be > 100 mm (> 3.94 inches) (» Fig.53).
- The tips of the yoke ends of the head and neck protectors must remain at least 30 mm (1.18 inches) below the collarbones when the head and neck protectors are pulled up backwards on the user's chest and the helmet laces are tightened.

Adjustment of the HANS®

Make sure that the minimum distance between the yoke ends and the belt connection point is maintained:

- ▶ The driver sits in the vehicle with helmet and the head and neck protection and pulls the belts tight as if for a race.
- ▶ The head with the helmet is pulled forward until the helmet belts are tight. Measure the distance between the head and neck protection collar part and the helmet = distance **A** (» Fig.53).
- ▶ Subtract distance **A** from 100 mm (3.94 inches) = distance **B** (» Fig.53). This is the minimum distance between the head and neck protection yoke ends and the belt connection that must be present.
- ☑ The Hans® is being worn correctly.

NOTE

Always pull the "HANS belt" 1 (» Fig.53) tight. The effect of the head and neck protection depends on the friction between the yoke surfaces and the "HANS belt". It is preferable that the "HANS belt" is tightened by another person rather than by the driver. This will ensure a better fit.

WARNING

Wearing the racing belt incorrectly and not tightening it properly can lead to increased body displacement and thus to serious injury or even death.

- ▶ Incorrect positioned safety belts can lead to significantly reduced effectiveness or even failure of the racing belt.
- ▶ Never position the lap belt too high on the hip or lead it backwards at too shallow an angle. Lap belts that are positioned too high or run too flat can lead to increased displacement of the lap and thus to "submarining".
- ▶ Never wear lap belts loosely. Loose lap belts can lead to increased movement of the pelvis and thus to "submarining" and increased stress on the crotch belts.
- ▶ Loose shoulder belts lead to increased head movement during an accident.
- ▶ Loose crotch belts can allow the lap belt to ride up, allowing either "submarining" or increased head movement.

4. 4. 5 Handling the QUICK adjustment system

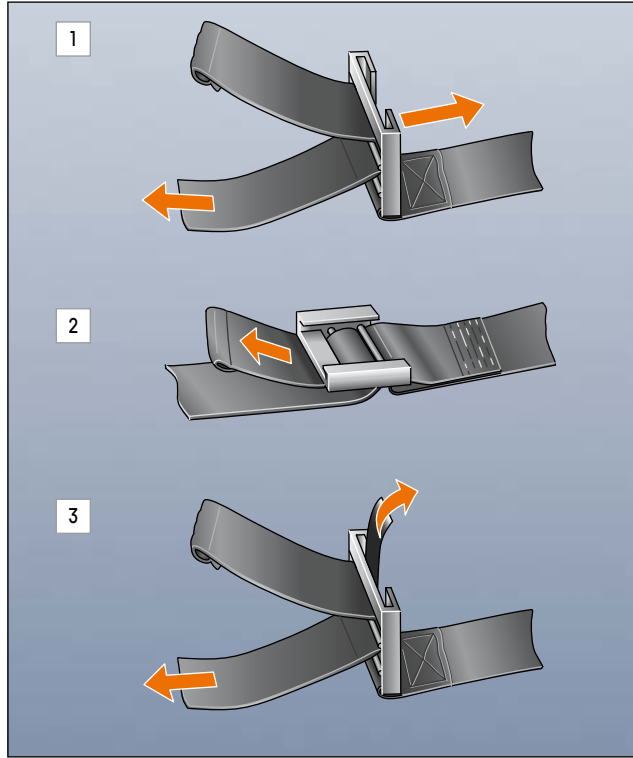


FIG.54 QUICK ADJUSTMENT SYSTEM

The racing belts have tilt adjusters for quick adjustment of the racing belt.

- ▶ To lengthen the belt, turn the adjuster approx. 90° and pull it or the belt you want to lengthen in the direction of the arrow 1 (» Fig.54).

or

- ▶ If the quick adjusters are fitted with a release strap 3 (» Fig.54), you can lengthen the belt by simply pulling up the release strap.

☑ You have lengthened the belt.

- ▶ To tighten the belt, pull the overhanging webbing in the direction of the arrow 2 (» Fig.54).

☑ You have tightened the belt.

! WARNING

Failure to wear a proper fitting, properly worn, good condition racing harness could lead to serious injury or death.

- ▶ The racing harness is designed for use in its entirety. Never use only part of the harness.

NOTE

Ensure that the adjusters are correctly positioned to avoid interference from the user's seat or neck both during normal use and during an accident.

NOTE

The correct body-specific adjustment of the lap belts and the crotch belts must already be made during installation. Have the installation carried out by an Authorised BUGATTI Partner.

NOTE

Make sure that the shoulder belt rest properly on the head and neck protection (e. g. HANS®). The quick adjusters must be on the lower end of the HANS®, but max. 70 mm (2.75 inches) measured upwards from the lower yoke end.

4. 4. 6 Removing a harness

Only remove your safety belt once the vehicle is at a standstill.

- ▶ Lengthen the shoulder belts [this is not necessary for getting out in an emergency].
- ▶ Turn the rotary buckle about 90° to the left or right (» Fig.51).
- ▶ The rotary buckle remains attached to the lap belt.
- ☑ The safety belt has been removed correctly.

4. 4. 7 Safety of children

NOTE

Unsecured or inadequately secured children can suffer serious or fatal injury.

- ▶ Never transport children in the car, who are under 12 years old or less than 150 cm (4'11") tall.

4. 5 STEERING WHEEL AND STEERING COLUMN

4. 5. 1 Steering wheel adjustment

The position of the steering wheel is also imperative for the correct seating position.

 **WARNING**

Failure to heed these warnings could lead to accident, serious injury, and death.

- ▶ Adjust the steering wheel before driving, never while driving.
- ▶ Lock the steering wheel before driving. Never unlock it while driving.



FIG.55 LEVER ON THE STEERING COLUMN

1 Lever

The reach and rake of the steering column can be adjusted using lever 1 (» Fig.55) on the steering column. When lever 1 (» Fig.55) is in the released position, the steering column can be moved to three different positions.

The steering wheel should be positioned so that:

- The driver’s arms are slightly bent when holding the steering wheel.
- The driver can move the feet among the pedals.
- The driver can see clearly all the information on the Driver Displays.

NOTE

Before moving off, make sure that the steering column is locked.

4. 5. 2 Quick release

 **WARNING**

Only remove the steering wheel when the vehicle is stationary.

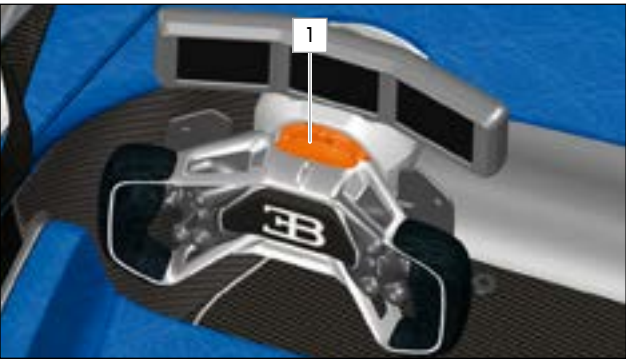


FIG.56 STEERING WHEEL QUICK RELEASE

1 Quick-release fastener

To make it easier to get in and out, the steering wheel can be removed using a quick-release fastener 1 (» Fig.56).

- ▶ Pull the ring of the yellow quick-release fastener 1 (» Fig.56) towards you and remove steering wheel from the steering column.
- ▶ To refit the steering wheel, pull the ring of the yellow quick-release fastener 1 (» Fig.56) and align the steering wheel with the main toothing of the steering column. Slide the steering wheel onto the steering column and release the collar.

NOTE

When putting the steering wheel back on, make sure that it locks correctly into place.

- ▶ When doing so, the road wheels must point straight ahead to make sure there is no angular offset.

 **WARNING**

Before moving off, pull the outer rim of the steering wheel to ensure it is securely engaged.

 **WARNING**

Failure to properly position and lock the steering wheel could lead to accident, serious injury, and death.

4. 6 PEDALS

4. 6. 1 Adjusting pedals

The correct seating position also includes the adjustment of the pedals.

Your BOLIDE comes with a pedal box that can be moved fore and aft on rails for optimum positioning.



WARNING

Never adjust the pedalbox position while your BOLIDE is in motion or in gear. Doing so could lead to accident, serious injury, and death.

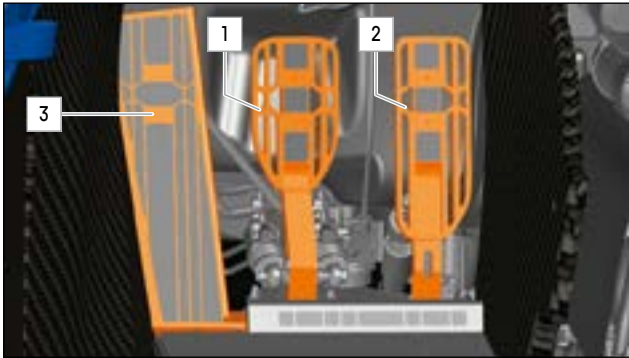


FIG.57 PEDALBOX ON THE DRIVER'S SIDE

- 1 Brake pedal
- 2 Accelerator pedal
- 3 Footrest

The fore-and-aft adjustment of the driver's pedal box uses a rail system on which the pedal box can be moved to the optimal position.

- ▶ To move the pedalbox, stop your BOLIDE.
- ▶ Place the gearbox in parking position (» page 150).
- ▶ Press your foot on the footrest 3 (» Fig.57).
- ▶ Press the pedalbox release button 1 (» Fig.57) next to and outboard of the driver seat.
- ☑ The pedalbox is adjusted.



FIG.58 PEDALBOX RELEASE BUTTON ON THE DRIVER'S SIDE

- 1 Pedalbox release button on the driver's side

The pedals are adjusted using the button on the driver's side.

- ▶ Release the lock by pressing the button 1 (» Fig.58).
- ▶ Adjust the pedals as required.
- ▶ Lock the pedals by releasing the button 1 (» Fig.58).
- ☑ The pedals are adjusted.

4. 7 GLASS AND MIRRORS

4. 7. 1 Heated windscreen

 **WARNING**

Do not press on any windows as they may break and cause severe injury.

The windscreen is made of glass. Inspect it before each drive. If there is any damage to the glass or the seal, do not drive. Replace or repair as necessary.



FIG.59 WINDSCREEN HEATER BUTTON ON THE CENTRE CONSOLE

4

 Windscreen Heater Button

The windscreen can be heated through a control on the centre console.

- ▶ Press the button 4 (» Fig.59) to activate the heated windscreen.
- ▶ Press the button 4 (» Fig.59) again to deactivate.
- ☒ The heated windscreen is on/off.

NOTE

The heated windscreen will be switched on again when the ignition is switched on if the heated windscreen was switched on at the point when the ignition was switched off.

NOTE

Do not place any food, medicines or other temperature-sensitive items in front of or on top of the air vents. Heat or cold-sensitive foods, medicines and objects can be damaged by the air output or could be rendered unusable.

4. 7. 2 Windows

 **WARNING**

Do not press on any windows as they may break and cause severe injury.

The glass side windows are fixed and cannot be opened. Use the air conditioner to ensure that there is enough air in the interior. Inspect the windows before each drive. If there is any damage to the glass or the seal, do not drive. Replace or repair as necessary.

NOTE

The windows are made of glass.

NOTE

If you are driving in wet conditions, a water-repellent agent can be used (» page 215).

4. 7. 3 Exterior mirror

 **WARNING**

Adjusting the rear-view mirror when driving can distract the driver. This can cause accidents and severe injury.

- ▶ Only adjust the exterior mirrors while the vehicle is at a standstill.
- ▶ Always ensure that the mirrors are adjusted correctly and that the rear view is not restricted by ice, snow, precipitation or objects.

NOTE

Two people are required to adjust the exterior mirrors to the drivers requirements.

Adjusting exterior mirrors

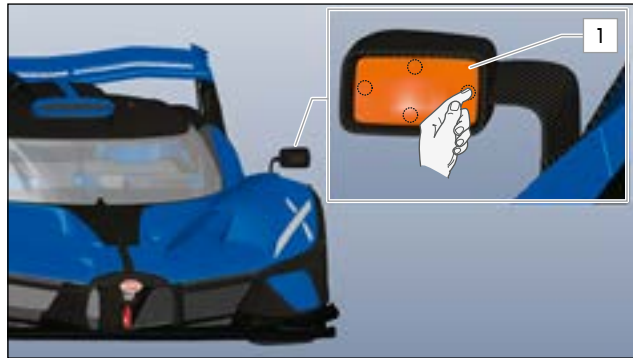


FIG.60 EXTERIOR MIRROR ON THE DRIVER'S SIDE

1 Exterior mirror

- ▶ Adjust the exterior mirror 1 (» Fig.60) so that you as the driver have an optimum view to the rear.
- ▶ Manually press the mirror glass at the indicated positions and make sure that you still have an optimum view to the rear.
- ▶ Repeat the process for the exterior mirror on the other side.
- ☑ The exterior mirrors are adjusted.

4. 8 LIGHTING

4. 8. 1 Daytime headlights and taillights



FIG.61 LIGHTS BUTTON ON THE CENTRE CONSOLE

7 Lights Button

Your BOLIDE has manually operated daytime headlights and taillights.

Follow track and event rules and consider conditions when using daytime headlights.

- ▶ Press button 7 (» Fig.61) to activate the front and rear lights.
- ▶ Press button 7 (» Fig.61) again to deactivate.
- ☑ The front and rear lights are on/off.

4. 8. 2 Brake lights

Your BOLIDE has brake lights that turn on when the brake pedal is pressed. They do not activate during ABS, TC, or ESC operation (» page 158).

4. 8. 3 No Reverse lights

Your BOLIDE does not have reverse lights.

4. 8. 4 Rain light



FIG.62 RAIN LIGHT BUTTON ON THE CENTRE CONSOLE

8 Rain Light Button

- ▶ Press button **8** (» Fig.62) to activate the rain lights.
- ▶ Press button **8** (» Fig.62) again to deactivate.
- ☒ The rain lights are on/off.

The rain light notification lamp on the centre console lights up.

NOTE

Observe the rules of the respective race track.

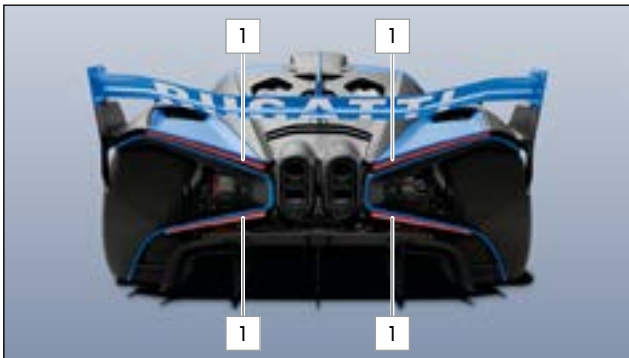


FIG.63 RAIN LIGHTS

1 Rain Lights

Rain lights **1** (» Fig.63) provide high intensity red LED light for use in rain; the rear lights flash at 4 Hz.

NOTE

Brake light brightness is reduced when the rain light is switched on.

4. 8. 5 Hazard warning lamps



FIG.64 HAZARD WARNING LAMP BUTTON ON THE CENTRE CONSOLE

1 Hazard Warning Lamp Button

Your BOLIDE is equipped with flashing hazard warning lamps. Follow the rules of the track and the event relative to hazard warning lamps.

- ▶ Press button **1** (» Fig.64) to activate the hazard warning lamp.
- ▶ Press button **1** (» Fig.64) again to deactivate.
- ☒ The hazard warning lamp is on/off.

The front and rear lights flash on/off.

4. 9 EMERGENCY SYSTEMS

4. 9. 1 Fire extinguisher system

 **WARNING**

Once activated, the vehicle should not be driven until all vehicle systems have been checked for damage and the fire extinguisher system has been serviced and is in working order.

Your BOLIDE is fitted with an integrated fire extinguisher system. There are no owner serviceable parts on this system. Contact the system supplier or an Authorised BUGATTI Partner in case of concern. The system has a limited service life and must be replaced on or before the date shown on the system expiry date label. Under no circumstances should an attempt be made to re-charge the system after deployment. Contact the system supplier or an Authorised BUGATTI Partner for guidance and advice. Ensure the system is inspected for integrity prior to each track visit.

Expiry date

The fire extinguisher system has a limited effective life. The suppression system cylinder label contains the expiry date and must be serviced on or before the date indicated.

NOTE

This product should be returned according to the date on the safety sticker to an Authorised BUGATTI Partner, for a complete check and service — and re-certification.

Activation

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ The system is not intended to extinguish fires completely. It is intended only to support an escape.
- ▶ Ensure the system is in good working order prior to each drive.
- ▶ Keep objects clear of the FIRE E button whenever the system is armed.
- ▶ The system has a limited life and must be replaced on or before the date shown on the system expiry date label.
- ▶ Have an Authorised BUGATTI Partner replace the control box whenever it replaces the 12 V or 48 V battery.
- ▶ There are no owner-serviceable parts on this system. Do not modify it. Contact an Authorised BUGATTI Partner for service.
- ▶ Do not attempt to re-charge the system after deployment. Contact an Authorised BUGATTI Partner for assistance.

 **WARNING**

Before every event, check: system weight, nozzles for cleanliness, that all mechanical/electrical connections are secure, and that the control box function was tested and it passed.

 **WARNING**

It must be emphasised that any plumbed in fire extinguisher system is mainly designed to delay the development of the fire spreading and consequently give the driver and co-driver time to exit the car; the system is not designed to put out the fire and prevent the car from burning. Please do not tamper with, make changes to, or use non FEV parts on your new fire extinguisher system as this will invalidate the homologation and affect the performance of the product. If any new parts are needed, please contact an Authorised BUGATTI Partner. If any changes have been made to this product from the original specification, it could in effect stop you driving.

There are three activation buttons, one internal (» Fig.66), and two external activation buttons (» Fig.65 and » Fig.67).

The control box has a 2 position on-on toggle switch to select the function. The up position is ARM with a red LED and down position is TEST with an orange LED. The toggle switch has a lock feature, always lift the switch before moving from TEST to ARM, or ARM to TEST.

Test Position Orange LED

Turn on the control box by lifting and moving switch 1 (» Fig.65) into the ARM position (**do not press any of the firing buttons**), lift and move the switch back into the TEST position. Only once the switch is back in the TEST position should you press and release either the external or internal firing buttons. If the test is successful, the orange LED will illuminate for 10 seconds. If the test is unsuccessful the orange LED will flash for 10 seconds or more, indicating a fault in one of the following: low battery, electrical continuity fault, button to trigger the system, plug on the remote charge or firing actuator in the remote charge.

Armed Position Red LED

Lift switch 1 (» Fig.65) and move the switch from the TEST position to the ARM position - whenever the switch is moved from the test to the armed position, the control box will run an automatic test to ascertain that there is no anomaly, only after those checks will the LED start to flash continuously indicating that the control box is operational. Only press and release the fire button if needed, as this will activate the system.

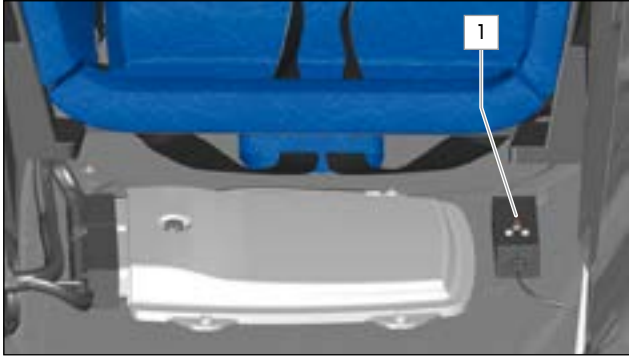


FIG.65 EXTINGUISHER FIRE CONTROL BOX UNDER THE DRIVER'S SEAT

1 FIRE E. switch

- The switch 1 (» Fig.65) must be set to ARM to activate the complete fire extinguisher system.
- ☑ The complete fire extinguishing system is activated.

Recommend After Use

Whenever the control box is not in use, always make sure the switch is in TEST mode and all the lights are off. After 30 minutes in TEST mode, the control box will enter sleep mode, giving approximately 1 year of battery life.

NOTE

Check all wiring connections and run through the test position procedure before each track day to test for any anomaly.

 WARNING

The control box battery will need to be replaced with the same specification battery to guarantee the longest battery life.

- Contact an Authorised BUGATTI Partner to replace the battery if necessary.

The fire extinguisher system is activated by pressing one of the activation buttons. One button is located on the centre console and one each on the exterior of the driver's door and passenger door.



FIG.66 INTERNAL FIRE EXTINGUISHER BUTTON ON THE CENTRE CONSOLE

D FIRE E. Button: triggers fire extinguisher system in case of emergency



FIG.67 EXTERNAL FIRE EXTINGUISHER HANDLE ON THE OUTSIDE OF THE SIDE PANEL ON THE DRIVER AND PASSENGER SIDE

1 FIRE E. Handle: triggers fire extinguisher system in case of emergency and interrupts the main power supply to the car in case of emergency

- ▶ Press the centre of button **D** (» Fig.66) to activate the fire extinguisher system.
- or
- ▶ Pull handle **1** (» Fig.67) to activate the fire extinguisher system.
- ▶ Bring the car to a complete stop in a safe place away from the track.
- ▶ If additional assistance is required and only when absolutely safe to do so proceed to a marshal’s post.

NOTE

The fire extinguisher system will be ineffective if the car is in motion.

- ▶ Activate the vehicle FIRE E. button/handle (either in the cabin or on the door). See Kill Switch » page 141.
- ▶ Alert Track Control to request appropriate assistance.
- ☒ Fire extinguisher system is triggered.

4. 9. 2 Electrical Kill Switch

**WARNING**

Only use the STOP button in an emergency situation — and not as a means to switch off the vehicle.

- ▶ Activating the STOP button may cause damage to the hybrid system if activated under load.
- ▶ Neither the Master Switch nor the STOP button applies braking. They simply cut power.

In case of emergency the BUGATTI BOLIDE is fitted with 4 kill switches:

- 1 Master Switch
- 1 STOP button
- 2 external buttons.

Any of these buttons, when activated, will immediately shut down the engine, the low voltage and the high voltage electrical systems.

NOTE

If the STOP button is activated, press the same button again to reactivate the electrical system on. It is NOT recommended that the STOP button is used to stop the engine in normal circumstances, see Stopping the engine » page 150.

Activation - internal switch

The STOP button is located in the centre console above the FIRE E. Button.

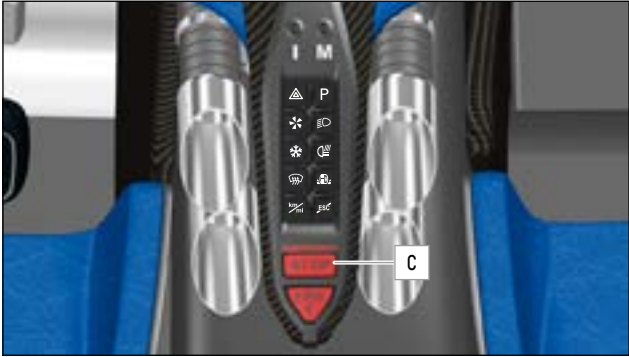


FIG.68 INTERNAL STOP BUTTON ON THE CENTRE CONSOLE

C STOP Button: interrupts the main power supply to the car in case of emergency

- ▶ To activate the emergency stop switch, press the STOP button **C** (» Fig.68).
- ☒ The main power supply is disconnected.
- ▶ To re-activate it, press the same STOP button **C** (» Fig.68) again.
- ☒ The main power supply is switched on.

Activation - external switch



FIG.69 EXTERNAL STOP BUTTON ON THE OUTSIDE OF THE SIDE PANEL ON THE DRIVER AND PASSENGER SIDE

- 1
- External STOP Button: interrupts the main power supply to the car in case of emergency

The external STOP button is located next to the external fire extinguisher system handle.

- ▶ The External STOP button **C** (» Fig.69) is activated by pressing the button.
- ☑ The emergency switch is activated.
- ▶ To re-activate it, press the same External STOP button **C** (» Fig.69) again.
- ☑ The main power supply is switched on.

 **WARNING**

- ▶ The kill switches are for use only in emergencies. Do not use them for ordinary shutdowns.
- ▶ Killing power stops propulsion. You will not be able to propel the vehicle without stopping, shifting to Park or Neutral, and restarting the engine.
- ▶ Pressing the STOP button while underway could lead to accident, serious injury, and death.
- ▶ Activating the STOP button may cause damage to the hybrid system if activated under load.
- ▶ Killing power also kills daytime headlights and taillights. Activate the hazard warning lights if you are near a travel surface or track.
- ▶ Kill switches interrupt the circuits to the batteries. They will not stop a battery fire.

05

5 DRIVING CONTROLS



5.1 TURNING POWER AND THE ENGINE ON AND OFF

5.1.1 Switching power on and off

Your BOLIDE has no ignition key. Power is controlled by switches.

 DANGER

Risk of fatal injury if the engine is not warmed up before the race!

An engine that is not properly warmed up before the race can fail suddenly, potentially resulting in an accident and serious injury.

- ▶ The engine must be warmed up before the race.
- ▶ Start the engine and let it warm up to 80°C (176°F) engine oil is reached.
- ▶ When the engine is cold, the transmission shifts up earlier.

 WARNING

Pay attention to the warning message and lights in the display when you move the vehicle.

 WARNING

Take great care when driving over ramps, protruding features, uneven or rough ground as severe damage to the underside of your BOLIDE may occur.

 CAUTION

Not following the correct order could damage your BOLIDE's electronics.

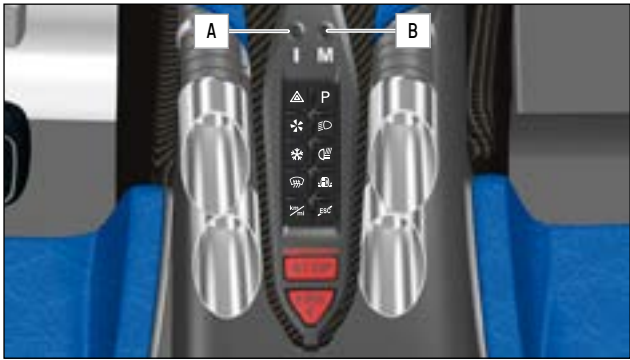


FIG.70 MASTER AND IGNITION SWITCH ON THE CENTRE CONSOLE

- A Ignition Switch
- B Master Switch

1. Push the Master Switch **B** (» Fig.70) up to the ON position.
 - ☑ The Master Switch is on.
2. Push the Ignition Switch **A** (» Fig.70) up to the ON position.
 - ☑ The Ignition Switch is on.

NOTE

Always switch on the Master Switch **B** (» Fig.70) first and then the Ignition Switch **A** (» Fig.70).
Switch off in the reverse order.

5. 1. 2 Turning the engine on and off

You cannot turn the engine on without first switching the ignition system on [» page 146].



Risk of fatal injury if the engine is not warmed up before the race!

An engine that is not properly warmed up before the race can fail suddenly, potentially resulting in an accident and serious injury.

- ▶ The engine must be warmed up before the race.
- ▶ Select **P** or **N** and start the engine.
- ▶ Let the engine idle.
When 80°C (176°F) engine oil is reached, the warm up procedure is completed.
- ▶ Throughout the entire warmup phase, check for leaks in the engine compartment and from the transmission area.
- ▶ Start driving.
- ▶ When the engine is cold, the transmission shifts up earlier.



Pay attention to the warning message and lights in the display when you move the vehicle.

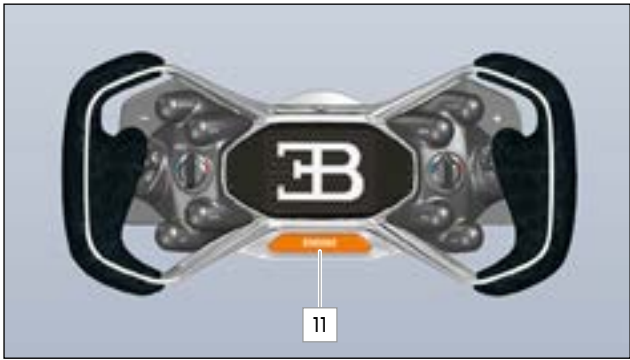


FIG.71 ENGINE BUTTON ON THE STEERING WHEEL

11 ENGINE button

- ▶ Put your foot on the brake pedal and keep it there.
- ▶ Press Master Switch **B** [» Fig.70] up to the ON position.
- ▶ Press Ignition Switch **A** [» Fig.70] up to the ON position.
- ▶ Make sure that the vehicle is in position **N** or **P** [» page 101].
- ▶ Briefly press the ENGINE button **11** [» Fig.71]. However, do not put your foot on the accelerator.
- ☒ The engine will start.

Starting can be terminated by releasing ENGINE button **11** [» Fig.71].

The ignition will switch on, the oil temperature, water temperature and fuel gauges will operate and several of the warning lights will illuminate as a self-test. The display will fully illuminate.

5. 1. 3 Warming up the engine

- ▶ Let the engine idle.
When 80°C (176°F) engine oil is reached, the warm up procedure is completed.
By cold start the engine power will be limited by earlier upshifting.
- ▶ Throughout the entire warm up phase, check for leaks in the engine compartment and from the transmission area.
- ☒ Start driving.

NOTE

- ▶ When driving, the coolant temperature must not exceed 126°C (258.8°F) and engine oil temperature must not exceed 130°C (266°F). Stop the car in case of a warning on the display.
- ▶ When the engine is cold, avoid driving at high engine speeds, at full throttle, or overloading the engine.
- ▶ For technical reasons, the vehicle cannot be push-started or tow-started.

5. 1. 4 Stopping the engine

NOTE

It is NOT recommended that the STOP button is used to stop the engine in normal circumstances, see Kill Switch, » page 141.

NOTE

Do not depress the accelerator pedal when switching off the engine.
Do not switch the engine off immediately after high speed/high load running, see » page 198.

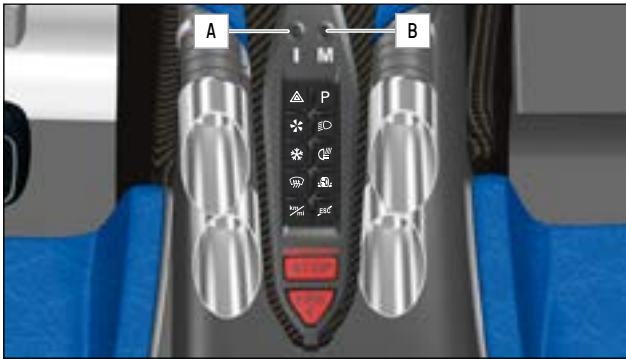


FIG.72 MASTER AND IGNITION SWITCH ON THE CENTRE CONSOLE

A Ignition Switch

B Master Switch

- Bring the vehicle to a complete standstill.
- Put your foot on the brake pedal and keep it there.
- Push the Ignition Switch **A** (» Fig.72) down to the OFF position.
- ☑ The engine will switch off.

NOTE

When leaving the vehicle, make sure that Ignition Switch **A** (» Fig.70) and the Master Switch **B** (» Fig.70) are in the OFF position. A pop-up on the display appears after the Ignition Switch **A** (» Fig.70) has been switched off asking to keep the Master Switch **B** (» Fig.70) on until the Engine ECU's after-run process is complete.

! WARNING

Never switch the engine or ignition off while the vehicle is moving. This can result in you losing control of the vehicle and result in accident or serious injury.

- The power steering does not work when the engine is switched off and more effort is needed to steer the vehicle.

! WARNING

- Before entering the pit, run a cool down lap (at medium average speed trying to reduce engine load and brake usage).
- Enter the pit, stop the car and switch off the engine.
- Place the fans on top of the engine in the first 10 seconds after stopping, let the vehicle cool down for 30 minutes. If you have another lap session, remove the fans and start driving immediately , see » page 198.

5. 2 DIRECT-SHIFT GEARBOX DSG®

5. 2. 1 Overview

Your BOLIDE is fitted with a direct-shift gearbox DSG®. The power is transmitted between the engine and the gearbox via two clutches which are independent of each other. They allow the vehicle to accelerate without noticeable interruption of torque. Changing up or down through the 7 gears automatically, down shifting has to be done manually.

 **WARNING**

Engaging the incorrect drive position can cause you to lose control of the vehicle, cause an accident and lead to serious injury.

- ▶ Never put your foot on the accelerator while engaging a drive position.
- ▶ If the engine is running and a drive position is selected, the vehicle will start moving as soon as the brake pedal is released.
- ▶ Never put the car into reverse or activate the gearbox parking lock when moving forwards.

 **WARNING**

Unintentional vehicle movements can cause severe injury.

- ▶ Never get out of the driver's seat when the engine is running and a drive position is selected. If you need to leave your BOLIDE with the engine running, always activate the gearbox parking lock **P**.
- ▶ If the engine is running and a gear is engaged keep your foot on the brake pedal. Even at idling speed power is transmitted, meaning the vehicle will "creep".
- ▶ Never leave the vehicle if the drive position **N** is selected. The vehicle will roll downhill regardless of whether the engine is running or not.



If you have accidentally moved to position **N** while driving, then immediately take your foot off the accelerator. Wait until the engine has reached idling speed before selecting a drive position again.

5. 2. 2 Warning and indicator lamps

The following warning and indicator lamps can illuminate in the display.

Symbol	Meaning
	Gearbox fault. If the warning does not go out, then immediately report this to an Authorised BUGATTI Partner.

5. 2. 3 Shifting

The driver shifts by using the steering wheel paddles **6** and **16** (» Fig.73) and the PARK button **6** (» Fig.74) on the centre console.

Drive



FIG.73 STEERING WHEEL UPSHIFT AND DOWNSHIFT PADDLES

- 6

+ Upshift paddle to switch through the gears
- 16

- Downshift paddle to switch through the gears

Select a forwards drive position.

- ▶ Use the paddles on the steering wheel to switch up **6** (+) or down **16** (-) through the gears (» Fig.73).
- ☑ The direct-shift gearbox DSG® shifts manually and remains in this mode.

If you do not operate the shift paddles when accelerating, the DSG® direct-shift gearbox shifts to the next higher gear (when accelerating) before reaching the permitted engine speed.

There is no automatic downshifting.

N - Neutral

In drive position **N**, the direct-shift gearbox DSG® is in neutral. No power is transmitted to the wheels. No engine braking force is available.

- ▶ Apply the brake and pull them both paddels **6** and **16** (» Fig.73).
- ☑ **N** postion is engaged.

R - Reverse

In drive position **R**, the car is in reverse gear. You can only engage reverse gear if the engine is running, the vehicle is at a standstill and the brakes are applied.

- ▶ Apply the brakes and pull paddle **16** (» Fig.73).
- ☑ **R** position is engaged.

It is not possible to change directly from reverse drive position to driving forwards (drive position).

i

To leave drive position **R** and engage a forwards drive position, you have to operate the paddles twice.

NOTE

It is possible but not recommended to engage reverse or drive at speeds up to 3 km/h (1.5 mph) whilst travelling in the opposite direction.

If reverse or drive is selected whilst at speeds above 3 km/h (1.5 mph) in the opposite direction, the transmission will stop in neutral as a self-protection feature.

!

WARNING

If **F** appears in the gearbox area of a display, a gearbox malfunction has occurred. Pull over to a safe place, coming to a complete stop, activate the hazard warning lamps if necessary (» page 135), and await assistance if you cannot correct the malfunction by shifting. Do not attempt to correct the malfunction while driving.

P - Gearbox parking lock

In this position the direct-shift gearbox DSG® is mechanically blocked.

The gearbox parking lock can only be switched on or off when the vehicle is at a standstill and the ignition switched on.



FIG.74 PARK BUTTON ON THE CENTRE CONSOLE

- 6

PARK Button
- ▶ Parking is selected by pressing the PARK button **6** (» Fig.74) on the centre console.

5. 2. 4 Temperature Monitoring of the Direct-Shift gearbox DSG®

Temperature monitoring helps prevent gearbox damage caused by high oil temperatures. If the oil temperature is too high, the drive position indicator flashes in the display. Slow down immediately and continue driving cautiously at least until the drive position indicator has stopped flashing. Notify an Authorised BUGATTI Partner.

5. 2. 5 Emergency release of the gearbox parking lock

If your BOLIDE needs to be towed away in the event of a power failure, then an emergency release of the gearbox parking lock needs to be carried out. The emergency release is located on the centre console on the driver's side.

Preparations

- ▶ Prevent the vehicle from rolling away.
- ▶ Switch off the ignition [» page 148].
- ☒ The gearbox parking lock can be unlocked.

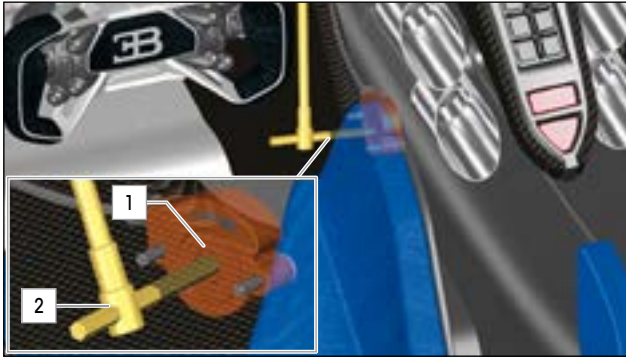


FIG.75 ON THE CENTRE CONSOLE: EMERGENCY UNLOCKING THE SELECTOR LOCK

- 1 Unlocking device
- 2 Allen key

NOTE

An Allen key is needed to release the gearbox. This is not provided with the vehicle.

Emergency unlocking the selector lock

- ▶ Insert the Allen key 2 (» Fig.75) into the unlocking device 1 (» Fig.75).
- ▶ Rotate the Allen key against the spring pressure until it reaches the end stop and hold it in this position.
- ☒ The vehicle can be moved.

5. 2. 6 After Spinning

WARNING

The transmission may not engage after a spin. If that occurs, turn on your hazard warning lamps, comply with track and event rules as you turn off the ignition , wait 5 minutes, turn on the ignition, start the engine, and engage a gear.

5.3 STABILITY ASSIST SYSTEMS

Your BOLIDE has three stability assist systems: Anti-lock Braking System (ABS), Traction Control (TC), and Electronic Stability Control (ESC). ABS automatically modulates braking force at individual wheels to reduce the risk of skidding (plowing, spinning) in braking. TC modulates engine output and may brake individual wheels to reduce the risk of skidding (plowing, spinning) in acceleration. ESC modulates engine output and may brake individual wheels to reduce the risk of skidding (plowing, spinning) in turns or when the vehicle does not follow the path commanded by driver inputs (steering, braking, throttle).

5.3.1 Brake assist systems

The brake-assist systems, such as the Electronic Stability Control (ESC), the traction control (TC), and the anti-lock braking system (ABS) only work when the engine is running. They play an important part in active vehicle safety.

 **WARNING**

Driving fast on slippery or wet asphalt surfaces can cause you to lose control of your BOLIDE and cause serious injury to the driver and passenger.

- ▶ Adapt the speed and manner of driving to visibility and racetrack conditions. The increased safety provided by brake assist systems ABS, TC and ESC should not tempt you to put your safety at risk.
- ▶ Brake assist systems cannot overcome physical limitations. Slippery and wet asphalt surfaces remain very dangerous, even when ESC and the other systems are used.
- ▶ Driving too fast on wet asphalt surfaces can cause the wheels to lose contact with the asphalt surface and to "float". Under such conditions, steering and brakes on the vehicle will not work, causing you to lose control once contact to the asphalt surface has been lost.
- ▶ Even though the brake assist systems are extremely effective and help keep control of the vehicle in difficult driving situations, always remember that the driving stability depends on the grip of the tires.

 **WARNING**

Ignoring illuminated warning lamps and warning messages can result in a breakdown, accident and serious injury.

- ▶ Never ignore the illuminated warning lamps and warning messages.
- ▶ Stop the vehicle as soon as it is possible and when safe to do so.

 **WARNING**

Driving with unserviceable brakes can cause an accident and serious injury.

- ▶ If the brake warning lamp (ⓘ) does go out, or if it lights up while driving, then either the brake fluid level in the reservoir is too low or there is a fault in the braking system. Immediately stop and notify an Authorised BUGATTI Partner without delay.
- ▶ If the brake system warning lamp (ⓘ) lights up at the same time as the ABS indicator lamp (Ⓜ), then the control function of the ABS may have failed. As a result, the rear wheels may lock relatively quickly under braking. Locked rear wheels can cause you to lose control of your BOLIDE! If possible, reduce vehicle speed and carefully drive at low speed to your nearest Authorised BUGATTI Partner to have the braking system checked. On the way there, avoid any sudden braking and driving manoeuvres.

 **WARNING (CONTINUED)**

- ▶ If the ABS indicator lamp (Ⓜ) does go out or lights up while driving, then the ABS system is not working correctly. You can only stop the vehicle with the normal brakes (without ABS). The protection provided by ABS is then not available. Take the car to an Authorised BUGATTI Partner as soon as possible.
- ▶ If the warning lamp (ⓘ) lights up on its own or with a warning message in the display, immediately take the car to an Authorised BUGATTI Partner and have the brake pads and disks inspected and/or have worn brake pads and disks replaced.

NOTE

Ignoring illuminated indicator lamps and messages can result in vehicle damage.

NOTE

Due to the different thermal expansion rates of the materials used, it is normal that the braking system emits some noise when operating in cold conditions.

5. 3. 2 Warning and indicator lamps

The following warning and indicator lamps can illuminate on the display. In addition, an explanatory message could appear on the display.

Symbol	Meaning
	Anti-lock braking system (ABS) fault The vehicle can still be braked with the normal brake system, i.e. without ABS. Notify an Authorised BUGATTI Partner without delay.
	ESC malfunction Notify an Authorised BUGATTI Partner without delay. OR: ESC switched off by operating the ESC switch off button

5. 3. 3 Anti-lock Brake System (ABS)

ABS reduces the risk of skidding during braking by reducing the risk of wheel locking. ABS senses when a wheel is locking and automatically reduces brake pressure to that wheel to allow maximum braking while minimizing wheel locking in accordance with your adjustment and conditions.

The Anti-lock Brake System (ABS) functions only when the engine is running and contributes significantly towards increasing the active driving safety.



FIG.76 ABS SWITCH ON THE STEERING WHEEL

14 ABS. Adjusting ABS strength

You can change the timing and extent of ABS intervention by rotating the ABS switch.

- Turn the switch 14 (» Fig.76) to the left or right.
From left to right:
 - 1 = maximum system support
 - 5 = minimum system support
- ☒ The ABS strength is set.

 **WARNING**

Failure to take full advantage of safety systems increases the risk of accident, serious injury, and death.

- Reducing system support deprives you of a safety feature. While this may be desirable under certain conditions for certain expert drivers, you must be certain that the adjustments are right for you and the conditions.

How the ABS works

If the wheel speed of an individual wheel is too low for the driving speed and is likely to lock, the brake pressure for this wheel is reduced. You will notice vibration through the brake pedal and noise when the ABS system is intervening. The feedback is intentional, and is to make the driver aware that the wheels are likely to lock and that the anti-lock braking system (ABS) is controlling the situation. Keep the brake pedal depressed so that the anti-lock braking system (ABS) can provide optimum control — never "pump" the pedal. Optimum steerability is retained during full braking on slippery asphalt surfaces as the wheels do not lock.

You should not expect the anti-lock braking system (ABS) to reduce the braking distance under all circumstances. The braking distance can be longer on gravel or fresh snow and on smooth asphalt surfaces than on dry asphalt surfaces.

5. 3. 4 Traction control (TC)

The system works with ABS throughout the entire speed range. If the ABS fails, the TC will also be out of action. TC helps the vehicle to move off, accelerate and climb hills under unfavourable asphalt conditions where this may otherwise be difficult or even impossible.



FIG.77 TRACTION CONTROL SWITCH ON THE STEERING WHEEL

8 Traction control (TC)
Adjusting traction control assistance level

► Turn the switch TC 8 (» Fig.77) to the left or right.

From left to right:

- 1 = maximum system support
- 5 = minimum system support
- 4 + 5 = ESC is switch off

☑ The strength of the traction control is set.

To activate or deactivate press the button 10 (» page 164) on the centre console.

 **WARNING**

Failure to take full advantage of safety systems increases the risk of accident, serious injury, and death.

- Reducing system support deprives you of a safety feature. While this may be desirable under certain conditions for certain expert drivers, you must be certain that the adjustments are right for you and the conditions.

NOTE

Turning the TC Adjustment Switch to 4 or 5 disables ESC.

5. 3. 5 Electronic Stability Control (ESC)

NOTE

The ESC button **10** (» Fig.78) is only functional if the Ignition Switch **A** (» Fig.70) is switched on.



FIG.78 BUTTON FOR SWITCHING ON AND OFF THE ELECTRONIC STABILITY CONTROL (ESC) ON THE CENTRE CONSOLE

10 Button to switch on and off ESC

- ▶ Short press the ESC button **10** (» Fig.78) to switch off ESC and TC controls.

The Electronic Stability Control (ESC) helps to reduce the risk of skidding. The Electronic Stability Control (ESC) works in conjunction with the ABS and the TC. The ESC should be activated on at all times.

- ▶ Press button **10** (» Fig.78) to reactivate the ESC.

! WARNING

The efficiency of ESC may be significantly reduced if other components and systems which affect drive dynamics have not been properly serviced or are not functional. This also refers to but is not limited to the brakes, tires and other systems.

- ▶ Always remember that conversions and modifications to the vehicle can affect the functionality of ABS, TC and ESC.
- ▶ Changes to the vehicle suspension or the use of wheel and tire combinations which have not been approved by BUGATTI can reduce both the way that ABS, TC and ESC work as well as their effectiveness.
- ▶ The effectiveness of ESC is also determined by a suitable tire.

NOTE

In order to ensure the smooth functioning of the ESC or the TC, the specified tires must be mounted on all four wheels.

- i** The ESC and TC will also fail to operate correctly if there is a fault in the ABS.
- i** The systems described may emit noise in operation.

How ESC works

ESC helps to reduce the risk of skidding by braking the wheels individually. The direction desired by the driver is determined depending on the steering angle and the vehicle speed and is continuously compared with the actual behaviour of the vehicle. In case of deviations, e.g. if the vehicle starts skidding, the ESC system brakes the respective wheel automatically. The vehicle is again stabilized by the forces that act on the wheel under braking. If the vehicle is oversteering (tendency of the rear end to break traction), the brakes are engaged primarily for the front outer wheel and if the vehicle is understeering (tendency of moving out of the bend), they are engaged for the rear inner wheel.

5. 4 LAUNCH CONTROL

Launch control is a means of accelerating to your BOLIDE’s maximum possible speed.

 **WARNING**

Failure to heed these warnings could lead to accident, serious injury, and death.

- ▶ Launch control takes no notice of other vehicles, persons, objects, road features, road conditions, or anything else. It will push your BOLIDE to maximum speed regardless of upcoming turns, slower moving vehicles, and surface conditions, to name just a few.
- ▶ The driver bears full responsibility for ensuring that the way is clear, that conditions permit, and that area and event rules permit fast-as-possible acceleration to maximum speed.

 **WARNING**

Operating the launch control during a racetrack drive can result in loss of vehicle control, accident and severe injury.

- ▶ Observe the racetrack regulations.
- ▶ Pay attention to the racetrack drivers behind you.

Engage the gearbox parking lock by pressing button “P” on the centre console.



FIG.79 LAUNCH CONTROL BUTTON ON THE STEERING WHEEL

10 Launch Control button (LC)

- ▶ Depress the brake pedal and keep it depressed with at least 25 bar (362.59 psi).
 - ▶ Turn the steering wheel to a straight ahead position.
 - ▶ Select a forwards drive position.
 - ▶ Press the LC button 10 (» Fig.79) on the steering wheel. A message will appear on the display for 10 seconds.
 - ▶ Launch control activ message appears for 2 seconds.
 - ▶ Fully depress the accelerator pedal.
 - ▶ Release the brake pedal after a maximum of 3 seconds.
- ☒ The vehicle will accelerate as fast as possible up to maximum speed.

 **WARNING**

Fast acceleration can result in loss of traction and cause skidding on slippery asphalts. This can result in loss of vehicle control, accident and severe injury.

NOTE

When actuating the Launch Control button, fully depress the brake pedal and the accelerator pedal simultaneously.

06

6 AT THE TRACK



6.1 WHEELS

6.1.1 Transport wheels

Your BOLIDE is fitted with transport wheels for delivery. Use the transport wheels only for low-speed relocation of your BOLIDE.

 **WARNING**

USE OF TRANSPORT TIRES

The BUGATTI BOLIDE is fitted with transport wheels for delivery. Using transport tires when testing or racing can cause you to lose control of the vehicle, thereby compromising your own safety.

- ▶ Do not use the transport wheels fitted to the vehicle on delivery when testing and racing. Information regarding the use restrictions of the tires is issued on delivery of the vehicle.

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ Transport wheels are not safe for driving at speed. Never drive at speed on transport wheels.

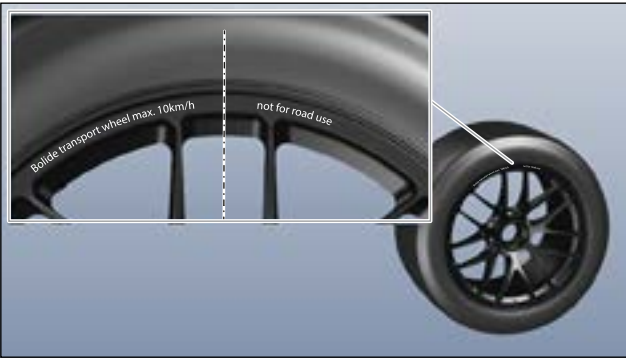


FIG. 80 TRANSPORT WHEELS

 Mount new wheels several times before use (loosen/tighten 3 times) to create a uniform contact pattern in the cone. Grease the taper again after this procedure.

The transport wheels are fastened using the original wheel nuts, which must be reused on the original wheels.

Wheel nut torque	400 Nm +/- 20 Nm
------------------	------------------

6.1.2 Racing wheels

Use only BUGATTI approved wheels of the correct size and specifications for your BOLIDE.

BUGATTI has approved these wheel sizes for your BOLIDE.

	Wheel Diameter
Front axle	12J"x18"
Rear axle	13J"x18"

BUGATTI offers two-wheel styles for your BOLIDE.



FIG. 81 STANDARD WHEEL



FIG. 82 OPTIONAL WHEEL

6. 1. 3 Wheel nut tightening

It is the teams’ responsibility to ensure all pit equipment used for wheel nut tightening is correctly set to achieve the correct wheel nut tightening torque.

 **WARNING**

If the wheel nuts have been fitted using a nut gun, care should be taken if removing with a breaker bar as there is a risk of injury and/or tool damage.

NOTE

INSUFFICIENT GREASING
Risk of damage to the rim cone and loosening of the wheel nut.

- Before mounting the wheels, always apply a layer of grease to the rim cone.

NOTE

The wheel nuts can be fitted and removed using a nut gun or a torque wrench.

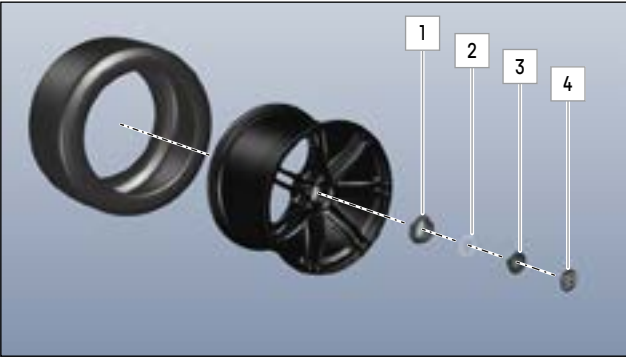


FIG. 83 WHEEL NUTS

- 1

Wheel nut
- 2

Locking ring
- 3

Safety nut
- 4

Safety cap

Ensure that the wheel is secured with the correct fasteners in the correct order.

Wheel nut torque	Torque and angle process is preferred: • Angle driven • 100 Nm + [40.5 (±4.5)]° • max.: 1600 Nm If not possible and torque only used: • 1,250 Nm (±50 Nm)
Safety nut	20 Nm

- Wheel nut torque should be checked pre session once the wheels are gunned in place.
- Care must be taken to ensure that the wheel is seated squarely when tightened up. An incorrectly seated wheel is likely to come loose quickly when the vehicle is in motion.

Lubrication

NOTE

Care must be taken to ensure that the lubricant does not come into contact with brake pads or disks.

It is recommended that specified graphite grease is applied to the following parts, as part of general race preparation. Contact an Authorised BUGATTI Partner for more information.

- Stub axle threads
- Wheel nut threads
- Wheel nut mating face

6. 1. 4 Wheel and wheel nut bedding in procedure

- New wheels and wheel nuts must be bedded in using a wheel gun, tightening and loosening the nut at least 5 times. Ensure that a clear mating face and a good contact area have been achieved.
- For the bedding in procedure, ensure that all areas covered above have been adequately lubricated with right graphite grease.

6. 1. 5 Wheel and wheel nut maintenance

Before each session, ensure that each wheel, nut, and drive peg is in the correct position, in good condition, and free of damage. Replace any damaged parts before driving.

 **WARNING**

An improperly attached wheel could fall off, leading to accident, serious injury, and death.

Drive peg maintenance

- It is imperative that the condition of the drive pegs in the wheels need to be regularly inspected for any burrs or damage.

Retaining peg maintenance

It is likely that the wheel nut retaining mechanism will require periodic maintenance. As part of general event preparation, inspection should be made to ensure that the locking pins operate freely. As required, the mechanism should be stripped and cleaned removing any burrs on the pins which may be present.

Wheel rim maintenance

- New wheel rims need to be bedded in, in a similar fashion to new wheel nuts. Inspection should be made to ensure that a clear seating mark can be seen, around the full circumference of wheel rim/nut contact surface. Ensure the surface is lubricated with specified graphite grease during bedding in.
- The mounting face on the inside of the wheel rims should be inspected to ensure that is still flat.
- Should the wheel be prevented from sitting flat on the brake disk bell, the wheel will not remain tight once the car runs on track.

6. 1. 6 Wheel nut direction

The hub and wheel nut threads are the same on both sides of the vehicle. Tightening directions are shown in the following images.



FIG.84 TIGHTENING DIRECTION ON THE DRIVER'S SIDE

- 1 Wheel nut on the driver's side

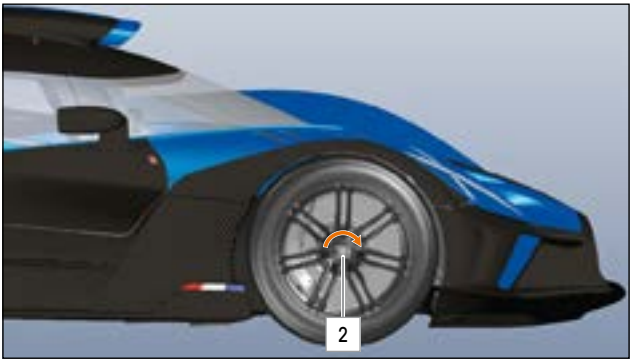


FIG.85 TIGHTENING DIRECTION ON THE PASSENGER SIDE

- 2 Wheel nut on the passenger side

 **WARNING**

An improperly attached wheel could fall off, leading to accident, serious injury, and death.

6. 2 TIRES

6. 2. 1 Tire information

Top condition tires of the correct type are essential for the safe operation of your BOLIDE.

 **WARNING**

IMPERMISSIBLE TIRE CONDITION

Tire pressures below the specified minimum pressure as well as embedded foreign objects, punctures, cracks and bulges in the side wall caused by ruptured plies lead to a change in vehicle handling and therefore increase the risk of accident and severe injury.

- ▶ Observe the minimum air pressure specified by the tire manufacturer.
- ▶ Inspect the tires for cracks, punctures and bulges on the side wall and/or embedded foreign objects.

 **WARNING**

Durability of the tires

The use of old or worn tires during tests or races can cause you to lose control of the vehicle and thus endanger your own safety.

Mounted on rims:

- ▶ The tires must be replaced after 60 km (37 miles).
- ▶ The tires must not be older than 1 years.
- ▶ The tires must be replaced before every track session.

Stored:

- ▶ Wet/DOT - We recommend using Michelin Competition tires within a maximum of **3 years** following their date of productions (within 4 months in the event of storage in severe tropical- type conditions).
- ▶ Slick/DOT - We recommend using Michelin Competition tires within a maximum of **5 years** following their date of productions (within 4 months in the event of storage in severe tropical- type conditions).

NOTE

A new tire is not a tire that has never touched the ground, but a tire on which the DOT (Department of Transportation) is up to date.

The DOT is present on the inner side wall the tire (» Fig.80).

6. 2. 2 Use only the correct tires

Use only tires of the correct size and specifications for each wheel of your BOLIDE.

 **WARNING**

Use of unapproved tires or tires of incorrect size and specifications could lead to accident, serious injury, and death.



FIG.86 EXAMPLE OF A MICHELIN WHEEL

The vehicle was developed and tested with Michelin tires in the dimensions listed below.

	Tire size	Rim diameter
Front axle	Michelin Slick 30/68-18 TL PILOT SPORT GT S8M RFID Michelin Rain 30/68-18 TL P2L COMPETITION	12J"x18"
Rear axle	Michelin Slick 34/71-18 F417414P Michelin Rain 34/71-18 F417414W	13J"x18"



These tire dimensions represent the approval state. The use of tires from other manufacturers, of other dimensions and of other types is the responsibility of the vehicle operator.

6. 2. 3 Install only new tires

New slicks are less than 3 years old when stored under proper conditions. New rain tires are less than 5 years old when stored under proper conditions.

“Proper” means in a cool, dry, indoor, environment. Consult your Authorised BUGATTI Partner or Michelin if you have questions about storage.

 **WARNING**

Improper storage conditions (e.g., extreme cold, extreme heat, extreme dryness, extreme humidity, ultraviolet rays) can damage or degrade tires in ways you may not be able to detect. Always store tires in proper conditions. Follow the tire manufacturer’s instructions and warnings. Failure to heed these warnings could lead to accident, serious injury, and death.

You can determine the age of the tire by looking at the DOT number on the tire wall.

NOTE

The effective age of a tire may be less than its calendar age if the tire has been stored improperly for even a brief time.

6. 2. 4 Use only fresh tires

- Tires must be replaced after 60 km (37 miles).
- Tires must be replaced after they have been used at most 10 times at 380 km/h (236 mph).
- Tires must be replaced if they have been run at speed at an incorrect pressure.
- Tires must be replaced if they have been run at speed at excessive temperature.
- Tires must not be on the vehicle for more than 1 year.
- Tires must be replaced before every track session.
- Tires must be in good physical condition (i.e., free of cracks, bulges, foreign objects, punctures, repairs, etc.).
- Tires must be inspected before each race.

6. 2. 5 Maintain proper tire pressure

 **WARNING**

The vehicle must not be driven if the tire pressures are below the minimum 1.9 bar (27.56 psi) cold pressure. This may cause loss of vehicle control, resulting in serious personal injury or death.

A high-quality tire pressure management system is highly recommended for vehicle operation.

As reference values:

- never drive at pressures below 1.9 bar (27.56 psi) and over 3 bar (43.51 psi),
- from a cold start at 2 bar (29 psi),
- reference pressure for high downforce (HDF) setup drive at 2.6 bar (37.71 psi),
- reference pressure for low downforce (LDF) setup drive at 2.6 bar (37.71 psi).

 **WARNING**

These value are just a reference, tire pressure monitoring must be performed accurately.

6. 2. 6 Maintain proper tire temperature

Preheat the tires before racing. Preheating must not exceed 80°C (176°F) for slick tires and 30°C (86°F) for rain tires.

 **WARNING**

Do not let a tire overheat. An overheated tire could delaminate or air out and lead to accident, serious injury, and death.

NOTE

Tire warming is recommended but is dependent upon the prevailing conditions, such as external temperature, humidity, track temperature, etc.

6. 2. 7 Wet mode

Your BOLIDE has a Wet Mode that makes fine adjustments to control systems, enhancing adaptability on slick surfaces.

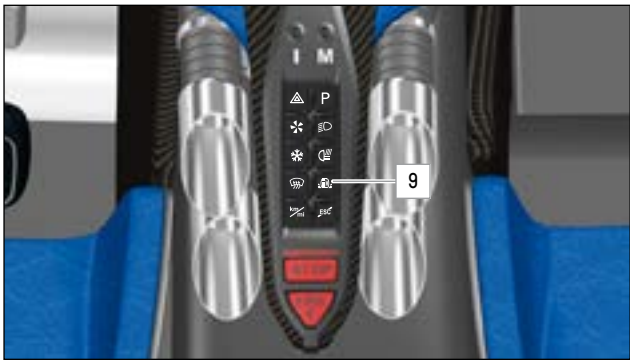


FIG.87 WET TIRES BUTTON ON THE CENTRE CONSOLE

- 9

Wet Mode Button: to be used when the vehicle is stationary
- ▶ Press button **8** (>> Fig.87) when stopped to activate Wet Mode. Do not attempt to activate Wet Mode while in motion.
 - ☒ The Wet Mode is deactivated.

 **WARNING**

- ▶ Wet Mode does not automatically limit speed.
- ▶ Never exceed 300 km/h (186 mph) with wet tires.
- ▶ Tire pressure management must also to be adapted to the wet tires.

6.3 FUEL

6.3.1 Safety information on handling fuel

 **WARNING**

Refuelling and handling fuel incorrectly can cause explosions, fire, serious burns and injury.

- ▶ When refuelling, switch off the ignition to avoid fires, explosions, serious burns and other injury.
- ▶ When refuelling, switch off any mobile phones and wireless devices or other wireless equipment. The electromagnetic radiation can cause sparks which can cause a fire.
- ▶ Never re-enter the vehicle when refuelling. In exceptional circumstances if you need to get back in your BOLIDE during refuelling, close the door and touch a metal surface to discharge static electricity before touching the filler nozzle again. This will prevent electrostatic discharge, which can cause sparks. Sparks can cause a fire when refuelling.
- ▶ Always make sure that the fuel filler cap is properly closed to avoid fuel vaporising and being spilled.
- ▶ Pay attention to the relevant safety advice and local regulations for handling fuels.

 **WARNING**

For safety reasons, BUGATTI recommends that you refrain from carrying a spare fuel can in the vehicle. Fuel could spill out of the can and could ignite, particularly in the event of an accident. This could cause explosions, fire and injury.

- ▶ If under exceptional circumstances you need to transport fuel in a reserve fuel can, then the following applies:
 - Never place the reserve fuel can in or on the vehicle while filling it, for example on the passenger seat. An electrostatic charge could build up while filling with fuel and the fuel vapour could ignite.
 - Always place the reserve fuel can on the ground when filling it.
 - When refuelling, place the reserve can straight on and press gently.
 - Always observe the legal regulations about the use, storage and transportation of reserve fuel cans.
 - Make sure that the reserve fuel can complies with industrial standards, e.g. ANSI or ASTM F852-86.

6.3.2 Fuel type

The vehicle runs on lead-free petrol in accordance with the European standard EN 228.

Only refuel your BOLIDE with petrol that has a rating of 102 RON/ROZ.

The petrol grades differ in the octane rating, e.g. 102 RON/ROZ (RON = "Research Octane Number" / ROZ = "Research Oktanzahl").

 **CAUTION**

- ▶ Using incorrect fuel can damage your BOLIDE.
- ▶ If you must drive with the wrong fuel, drive as slowly and as briefly as possible.
- ▶ Leaded fuel will damage your engine. Do not start the engine with leaded fuel in the tank.
- ▶ Avoid additives.

NOTE

- ▶ Prior to refuelling check the petrol to ensure that the specification of the fuel standard on the petrol pump satisfies the requirements of the vehicle.
- ▶ Only refuel with petrol that meets the specified standard with an adequate octane rating. Otherwise you could cause significant damage to the engine and the fuel system. This can also result in a drop in performance and the engine breaking down.
- ▶ If in an emergency you need to refuel with petrol with an octane rating which is too low, then before refuelling, switch the octane rating and only drive the vehicle at average revs and keep the engine load low. Avoid high engine speeds and a high engine load. Otherwise this could result in damaging the engine! As soon as possible, refuel with petrol with a high enough octane rating.
- ▶ Using unsuitable fuel additives can cause serious damage to your engine.
- ▶ Fuels that are designated as metal-containing must not be used. LRP fuels (lead replacement petrol) contain high concentrations of metallic additives. Danger of damaging the engine!
- ▶ Just one filling of leaded fuel or other metallic additives can cause serious damage to the engine.

6.3.3 Fuelling

The tank holds around 88 litres (19 gallons). The fuelling valve is on the passenger side just aft of the door. There is no cover. Simply insert the nozzle into the valve to fuel.

Filling the tank

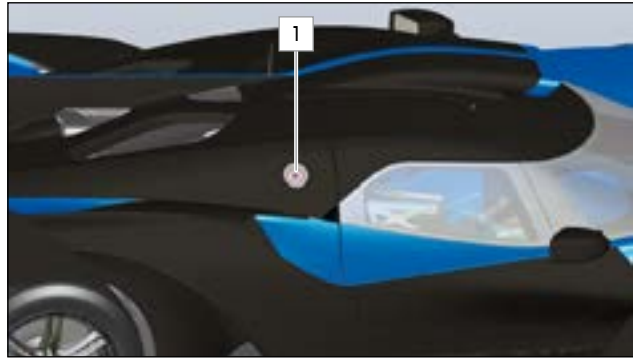


FIG.88 ON THE PASSENGER SIDE: FUELLING VALVE

1 Fuelling valve

- ▶ Activate the pit speed button 9 (» page 203) on the steering wheel on the way to the pit lane.
 - ▶ As soon as you have come to a standstill, the filler nozzle is placed on the fuelling valve 1 (» Fig.88) on the passenger side of the car.
 - ▶ Once the tank is full, do not try to add any more fuel! Otherwise the expansion space in the fuel tank fills up and the petrol could spill out.
- ☒ The tank has been completely filled with petrol.

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ Switch off the engine and ignition before fuelling.
- ▶ Ensure that nearby persons are grounded and have no devices (e.g., cell phones) that can emit electromagnetic signals or sparks.
- ▶ Do not allow anyone to enter your BOLIDE during fuelling. That can emit sparks.
- ▶ Do not overfill.
- ▶ Ensure that spills are cleaned before driving off.

 **WARNING**

Do not run your BOLIDE to near empty. The engine can enter limp home mode when the fuel level is almost empty. Engine output is then limited. Running your BOLIDE nearly or completely out of fuel could lead to accident, serious injury, and death.

 **CAUTION**

- ▶ Fuel spills can damage paintwork, wheels, and tires.
- ▶ Stale fuel can damage your engine. If storing your BOLIDE for an extended period, drain all fuel beforehand.

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ Never carry a fuel container in your BOLIDE. It cannot be secured. During driving or a crash, it could be upset or ruptured.

NOTE

For further information please contact an Authorised BUGATTI Partner.

6.4 CHASSIS SETUP

The BOLIDE has two settings:

- **Standard setup** with high downforce, max speed is 360 km/h (224 mph).
- **High speed setup** with low downforce for max speed up to 380 km/h (236 mph).

 **WARNING**

Do not attempt to customize settings on your own. Seek professional advice and assistance. Non-standard settings are not approved by BUGATTI. Using non-standard settings could increase the risk of accident, serious injury, and death.

NOTE

Must be performed before each run, please contact an Authorised BUGATTI Partner.

High downforce (HDF) standard setup

Front		
Wheel angles	Toe (+out)	2.0 +/- 0.3 mm (+/- 0.011 inch)
	Camber	-2.0 +/- 0.1°
	Caster	7.0 +/- 0.3°
Aero	Front ride high (FRH)	68.0 +/- 0.5 mm (+/- 0.020 inch)
	Front flicks	mounted
Tires	reference pressure in hot condition	2.6 bar (37.71 psi)

Rear		
Wheel angles	Toe (+out)	-2.0 +/- 0.3 mm (+/- 0.011 inch)
	Camber	-1.0 +/- 0.1°
	Caster	-8.3 +/- 0.3°
Aero	Rear ride high (RRH)	111.6 +/- 0.5 mm (+/- 0.020 inch)
	Rear wing angle	12°
Tires	reference pressure in hot condition	2.6 bar (37.71 psi)

Low downforce (LDF) high speed setup

Front		
Wheel angles	Toe (+out)	2.0 +/- 0.3 mm (+/- 0.011 inch)
	Camber	-2.0 +/- 0.1°
	Caster	7.0 +/- 0.3°
Aero	Front ride high (FRH)	74.4 +/- 0.5 mm (+/- 0.020 inch)
	Front flicks	removed
Tires	reference pressure in hot condition	2.6 bar (37.71 psi)

Rear		
Wheel angles	Toe (+out)	-2.0 +/- 0.3 mm (+/- 0.011 inch)
	Camber	-1.0 +/- 0.1°
	Caster	-8.3 +/- 0.3°
Aero	Rear ride high (RRH)	113.7 +/- 0.5 mm (+/- 0.020 inch)
	Rear wing angle	7°
Tires	reference pressure in hot condition	2.6 bar (37.71 psi)

6. 5 TRACK DRIVING

6. 5. 1 Track Driving

The driver and co-driver are solely responsible for ensuring that they have the training, knowledge, experience, temperament, mental condition, and physical condition to drive the BOLIDE on each track, on each day, during each session, and under the relevant conditions, for each mile and minute. If there is any doubt about driver and co-driver capacity, do not drive. Remedy all concerns. If they cannot be remedied, do not take a chance.

The driver and co-driver are solely responsible for ensuring that the BOLIDE is in top condition for the track, the day, and the session. If there is any doubt about your BOLIDE’s condition, do not drive. Remedy all concerns. If they cannot be remedied, do not take a chance.

Even when in top condition, a driver and co-driver can be distracted. Resist all distractions from the driving tasks.

 **WARNING**

Do not drive or co-drive unless you are in top condition. Do not allow any impairment or distraction to interfere with driving and co-driving. Failure to heed these warnings could lead to accident, serious injury and death.

6. 5. 2 Altitude and Ambient Temperature Restrictions

 **CAUTION**

Your BOLIDE should not be driven when the ambient temperature is below 10°C (50°F) or above 35°C (95°F). Colder or hotter temperatures will degrade performance and may damage the engine and void the warranty.

6. 5. 3 Basic procedure

Follow this basic procedure at the track.

1. Car preparation for track
 - Ensure that your BOLIDE has been serviced according to the maintenance schedule (» page 255) and that all components have not passed beyond their useful lives.
 - Work through the checklist (» page 190). The person responsible for each task should check the applicable box.
2. Warm up
 - Warm up the engine, see » page 149.
3. Installation lap
 - No engine cover
 - Engine has been warmed up
 - Drive 1 lap to warm the car
 - Back to the pit
 - Check tire pressures → adjust if needed
 - Check all fluids
4. Out lap
 - Drive 3 Laps to bring the tires and brakes to the right temperature
 - Back to the pits
 - Check all fluids
 - Refit the engine covers

5. Drive
 - Pay attention to the display warning
 - Always use the engine fans by stopping the car in the pits, see » page 198.
6. In lap
 - Drive at least 1 cool-down lap to reduce engine and brake temperature. Please refer to the cool down procedure see » page 198.

6. 5. 4 Service plan

Make sure that your BOLIDE has been service and follow all requested instructions.
See service plan (» page 266).

6. 5. 5 Checklist

Car preparation

Fluid levels	Checked
Engine oil	☐
Gearbox oil	☐
Brake fluid	☐
Hydraulic oil	☐
HT coolant	☐
LT coolant	☐
Chassis	Checked
Check bushing holding rear differential to subframe	☐
Check chassis frames for damages	☐
Check chassis setup and perform if necessary	☐
Check rims condition	☐
Check TPMS sensor voltage and communication	☐
New tires fitted	☐
TPMS/wheel position noted on tire	☐
Check air jack system condition	☐
Powertrain	Checked
Check front differential	☐
Check front axle drive shaft, flanges and CVT boots	☐
Check longitudinal differential condition	☐
Check shaft to the gearbox and CVT boots condition	☐
Check gearbox condition	☐
Check propshaft to the rear differential condition	☐
Check engine condition	☐
Check water and oil pipes for interferences, signs of damage and cracks	☐
Check auxiliary belt with endoscope, verify cracks or other signs of overheating	☐
Check rear differential condition	☐
Check rear axle drive shaft, flanges and CVT boots condition	☐
Check air filter condition	☐

Brakes	Checked
Check front wear brake disks and condition	☐
Check rear wear brake disks and condition	☐
Check front brake pads thickness	☐
Check rear brake pads thickness	☐
Complete bleeding procedure if the brake fluid is not older than 1 year. If not replace it	☐
Check brake cooling ducts and heatshield condition	☐
Clean brake disk temp sensor condition	☐
Check brakes oil pipes for damages	☐
Electric	Checked
Set the right race track if available	☐
Download drive data and clean C70 memory	☐
Erase all engine, gearbox and ABS fault codes	☐
Erase all warnings (PBX)	☐
Check 12 V battery state of charge	☐
Check fire extinguisher system	☐
Check kill switches	☐
Ckeck brake light	☐
Check rain light	☐
Ckeck day light	☐
Check hazard light	☐
Check display and steering wheel functionality	☐
Bodywork and interiors	Checked
Check bodywork status	☐
Check engine air intake condition	☐
Check under tray wear, profiles and strikes condition	☐
Check rear wing condition	☐
Check emergency door release system	☐
Check front windshield	☐
Check door windows	☐
Check exterior mirrors	☐
Check seat and belts expire date and condition	☐
Check steering wheel lock function	☐
Check steering wheel adjustment	☐
Check pedal box lock function	☐
Check pedal box adjustment	☐
Check towing eyes hook front and rear condition	☐

Before drive

General	Checked
Car preparation done	☐
Fluid levels*	Checked
Engine oil	☐
Gearbox oil	☐
Brake fluid	☐
Hydraulic oil	☐
HT coolant	☐
LT coolant	☐
Chassis	Checked
Check rims for cracks, damage or deformation	☐
New wheels fitted	☐
Set tires pressure. Start with 2.2 bars (31.91 psi). Under 1.9 bars (27.66 psi) is dangerous!	☐
Check TPMS sensor voltage and communication	☐
Wheel sensor position learned	☐
Electric	Checked
Check 12 V battery state of charge	☐
Check fire extinguisher system	☐

Bodywork and interiors	Checked
Check state of bodywork	☐
Check undertray wear	☐
Check front undertray profiles	☐
Check undertray side skirts	☐
Check rear wing condition	☐
Check emergency door release system	☐
Check windshield	☐
Check door windows	☐
Check exterior mirrors	☐
Check seat and belt condition	☐
Check steering wheel lock function	☐
Check pedalbox lock function	☐
Warm up procedure	Checked
Engine warm up	☐
Check for any leak	☐

* According to the workshop manual.

6. 5. 6 Warming up the engine

Warm up the engine before driving.

- Ensure the B0LIDE is in Park (or in Neutral if braked or chocked) and start the engine.
- Let the engine idle.
- When 80°C (176°F) engine oil is reached, the warmup procedure is completed.
By cold start the engine power will be limited by earlier upshifting.
- Throughout the entire warm up phase, check for leaks in the engine compartment and from the transmission area.

 **WARNING**

Failure to warm the engine up before a race could lead to accident, serious injury, and death.

- An engine that is not warmed up properly before a race can fail suddenly. That can disable the vehicle, exposing occupants and others to a risk of collision. It can increase the risk of fire or other catastrophic breakdown.

6. 5. 7 Engine temperature while driving

When driving, the engine coolant temperature must not exceed 126°C (258.8°F) and engine oil temperature must not exceed 130°C (266°F). Slow down to cool down. Stop in the pit if necessary, using the cooling fans to bring the temperature down.

6. 5. 8 Tire management during racetrack drive

Slick tires

Tire mileage management: max. 60 km (37 miles)

Tire max. speed management:

Configuration that allows to reach 380 km/h (236 mph) for 10 times with a single tire set, for the low downforce. This corresponds to one stint, for a total mileage of 60 km (37 miles).

Wet tires

Tire mileage management: max. 60 km (37 miles)

Tire max. speed: 300 km/h (186 mph)

NOTE

Have the described adjustment work carried out by qualified and appropriately trained personnel only, see » page 185.

Tire pressure

Reference pressure for high downforce (HDF) setup drive at 2.6 bar (37.71 psi)

Reference pressure for low downforce (LDF) setup drive at 2.6 bar (37.71 psi).

Never drive if a tire pressure is below 1.9 bar (27.56 psi) cold pressure.

Never drive from a cold start at 2 bar (29 psi).

Tire temperature

Preheat the tires before racing. Preheating must not exceed 80°C (176°F) for slick tires and 30°C (86°F) for rain tires.

 **WARNING**

Do not let a tire overheat. An overheated tire could delaminate or air out and lead to accident, serious injury, and death.

6. 5. 9 Brake management

 **WARNING**

Disregarding Oxidation rate warnings can cause serious injury.

► It is mandatory to have correctly set the information regarding track length and finish line coordinates inside the laptriggering system.

This information is necessary to have a correct calculation of the brake oxidation rate.

Oxidation rate will be displayed at every lap crossing the start-finish line. If the oxidation rate value will exceed 60%, the brakes will wear out in a much quicker way. Driver should refer to the following table for the brake disk inspection intervals.

Lift and coast procedure will help decreasing oxidation rate values.

Black stripes on the brake disks may indicate a high oxidation rate.

			< 60% oxidation rate	> 60% oxidation rate	
			/	below reference wear curve **	above reference wear curve **
Front	Disk	min. thickness [mm/inch]	30/1.181	33/1.299	33/1.299
		max. mileage [km/miles]	2,500/1,553	1,000/621	1,000/621
		Control plan *	60% standard	wear check interval: 120 km	wear check interval: 60 km
	Pads		change with disk, not depending on thickness	change with disk, not depending on thickness	change with disk, not depending on thickness
Rear	Disk	min. thickness [mm/inch]	28/1.102	30/1.181	30/1.181
		max. mileage [km/miles]	2,500/1,553	1,000/621	1,000/621
		Control plan *	check together with front disk	check together with front disk	check together with front disk
	Pads		change with disk, not depending on thickness	change with disk, not depending on thickness	change with disk, not depending on thickness

* The control plan can be found on page » page 196.

** The reference wear curve can be found in the workshop manual.

Control plan

< 60% oxidation rate	Interval
thickness > 33 mm (1.30 inch)	every 300 km (186 miles) (after the first 600 km (373 miles))
thickness < 33 mm (1.30 inch)	every 120 km (75 miles)

> 60% oxidation rate	Interval
wear > reference	every 60 km (37 miles)
wear < reference mileage < 500 km (310 miles)	every 120 km (75 miles)
wear < reference mileage > 500 km (310 miles)	every 60 km (37 miles)

NOTE
In addition to this control plan, BUGATTI recommendation is to perform an accurate visual inspection of the brake material every time there are events which may lead to collect a lot of dirt, dust and debries in the wheel arch area.

Lift and coast procedure

Well before the braking point, lift the throttle to zero, letting the coast down and start braking the car at the usual distance.

This procedure is useful to reduce fuel consumption and help to cool the engine and brakes down with a limited impact to the lap time.

6. 6 COOL DOWN PROCEDURE

What to do before entering the pit and after parking the car in the pitlane

Before to stop the car it is required to run a cooldown lap. The cooldown lap consists of one or more laps around the track keeping the highest gear as possible, maintaining a sustained average speed and avoiding abrupt and repeated accelerations and decelerations (being always compliant to the track rules to avoid any potential collision or damage). The aim of the procedure is to bring the highest amount of air throught the radiators and the cooling ducts in order to reduce the coolant and brake disks temperature as recommended (see recommended target). If one lap is not enough to reduce the temperature below the target, perform another cooldown lap, check temperatures and repeat.

Recommended target

- Coolant temperature <90°C (<194°F)
- Brake temperature: below 300°C (572°F)

Turn off the engine within a maximum of 1 minute after parking.

 **WARNING**

It is mandatory to use external cooling fans to avoid any damage to the engine and accessories.

Coolant temperature
Engine bay

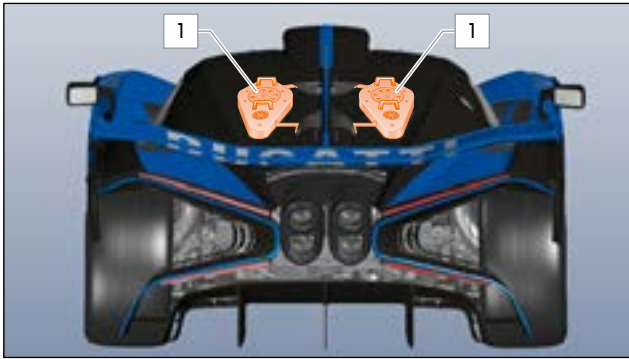


FIG.89 EXTERNAL ENGINE COOLING FANS

- 1

Additional fans
- Place the additional fans 1 (» Fig.89) over the engine compartment as soon as the car is stationary, within 10 seconds.

ICE radiator



FIG.90 EXTERNAL FRONT ICE RADIATORS

- Cool both air ducts on the front of the car.
- Place the external fans in front of the car as soon as the car is stationary, within 10 seconds (» Fig.90).



FIG.91 EXTERNAL LEFT AND RIGHT SIDE ICE RADIATORS

- Place the external fans on the left and right side of the air ducts (» Fig.91) as soon as the car is stationary, within 10 seconds.

Brake temperature
External fans

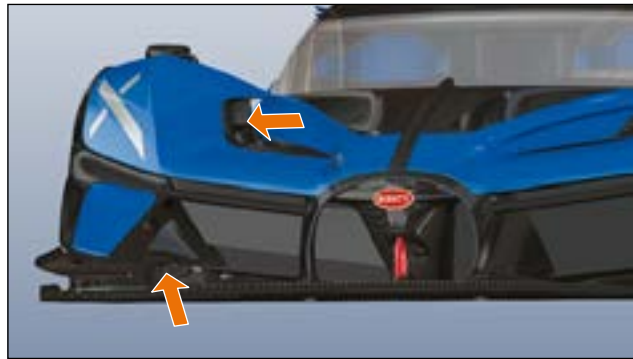


FIG.92 EXTERNAL FANS FRONT BUMPER

- Place the external fans in front of the air ducts as soon as the car is stationary, within 10 seconds (» Fig.92).

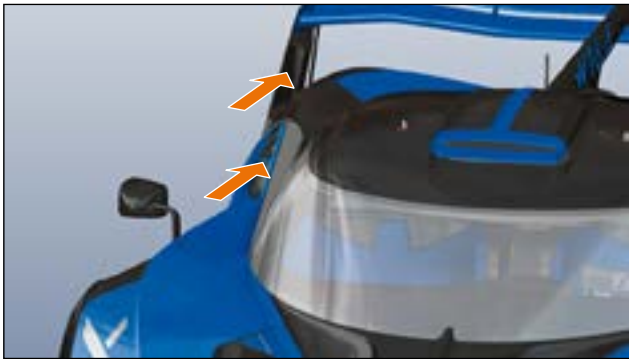


FIG.93 EXTERNAL FANS END PLATE

- Place the external fans in front of the air ducts on the left and right side as soon as the car is stationary, within 10 seconds(» Fig.93).

Continue to drive

Keep the fans ON during the pit operation — remove the fans only when ready to start driving immediately out of pit. Before driving, ensure that temperatures are in line with the warming up procedure, see » page 192.

Away from the track

It is recommended to keep the fans running for 30 minutes before transporting the car away from the circuit.

The ICE radiators and external fans are not included in the scope of delivery.
Cooling fans are available from an Authorised BUGATTI Partner.

NOTE
For further information please contact an Authorised BUGATTI Partner.

6. 7 ON-TRACK SYSTEMS

6. 7. 1 Pit to car radio and intercom

 **WARNING**

Using the radio during complex track conditions such as overtaking or negotiating fast corners may result in a reduced driver concentration and loss of vehicle control.

- Only use the pit to car radio when it is safe to do so.

NOTE

The pit crew must be made aware of the potential for disturbing the driver when making pit to car radio contact.

The BUGATTI BOLIDE steering wheel is equipped with a radio button, it can be used and configured for a radio system but not included in the standard scope of delivery.

NOTE

For further information please contact an Authorised BUGATTI Partner.

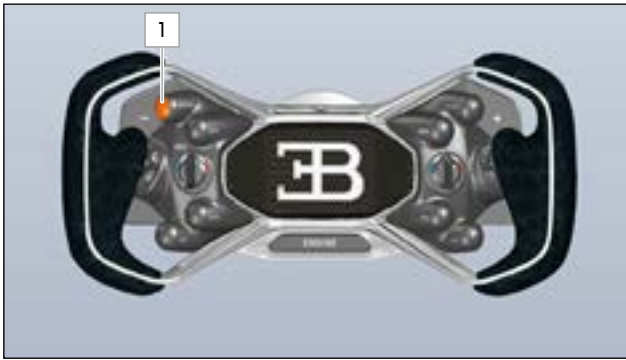


FIG.94 RADIO COMMUNICATION BUTTON ON THE STEERING WHEEL

- 1

Radio communication. Communication with pit crew
- For the driver to communicate with the pit crew, press and hold the button 1 (» Fig.94).
 - ☒ Communication between driver and pit crew is established.

6. 7. 2 Pit speed limiter



FIG.95 PIT SPEED BUTTON ON THE STEERING WHEEL

- 9

PIT speed. Automatic speed-reduction to pit speed.

Your BOLIDE is equipped with a switch that automatically limits your velocity to a pit speed of 60 km/h (37 mph).

- To activate, decelerate to 60 km/h (37 mph) and press the PIT button 9 (» Fig.95). No amount of throttle pedal application will allow the vehicle to exceed pit speed when this system is on.
- ☒ The pit speed limiter is activated.
- To deactivate, press the PIT button 9 (» Fig.95) again.
- ☒ The pit speed limiter is off.

NOTE

If the speed limiter is active in the pit lane, this is shown in the display with the yellow PIT indicator, see » page 48.

6. 7. 3 Headlight flash

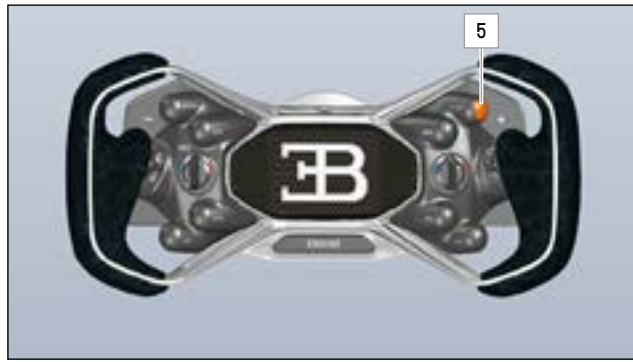


FIG.96 FLASH HEADLIGHTS BUTTON ON THE STEERING WHEEL

- 5
- Flash headlights
- Activation of flash headlights
 - Activation of high-speed mode

6. 7. 4 ACK Acknowledge button

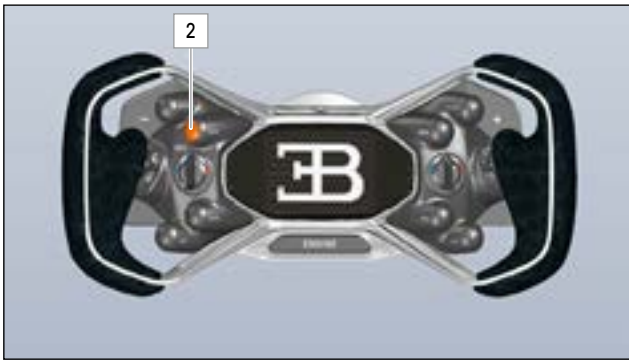


FIG.97 ACK BUTTON ON THE STEERING WHEEL

- 2
- Confirm/Acknowledge.
- Acknowledge for display functions:
- OK for display warnings.
 - Confirmation of high-speed mode

The steering wheel has a multi-purpose ACK button **2** (» Fig.97) for acknowledging or confirming signals from the vehicle.

To acknowledge a message, briefly press the ACK button.

6. 7. 5 MRK Mark button

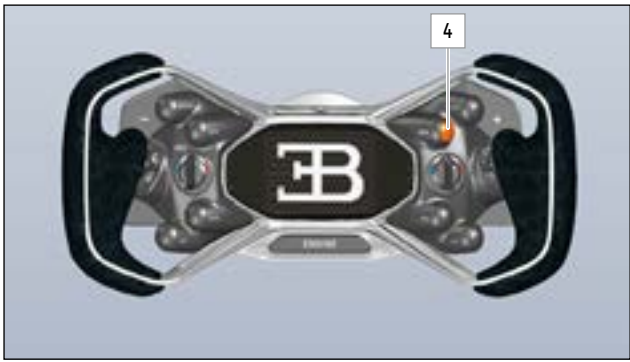


FIG.98 MARKER BUTTON ON THE STEERING WHEEL

- 4
- Marker. Marker for datalogger

6. 8 DATA PORT

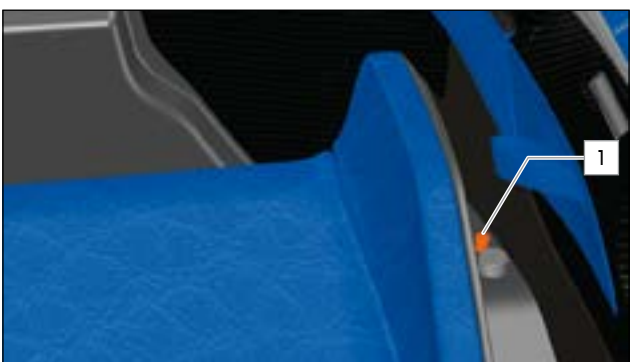


FIG.99 DRIVING DATA CONNECTION ON THE SIDE OF THE PASSENGER SEAT

- 1
- Driving data connection, PIT connector

There is a data port outboard of the co-driver seat.

- Connect the laptop with the PIT connector **1** (» Fig.99).
- ☑ The driving data can be read out.

6. 9 AIR JACK

6. 9. 1 Overview

Your BOLIDE has a built-in air jack system for temporarily raising the vehicle to a wheel free condition during pit stops.

 **WARNING**

Failure to heed these warnings could lead to serious injury and death.

- ▶ Never allow people or body parts under the BOLIDE when it is supported by the air jack system.
- ▶ Never use the air jack system for anything other than fast work during a pit stop.

6. 9. 2 Air jack system operation

Raising the vehicle on air jacks

 **WARNING**

Never work under the vehicle with the vehicle supported on the air jack system alone. Always ensure safety supports are in place before commencing work.

 **WARNING**

Never store the vehicle supported on the air jack system alone. Always ensure safety supports are in place.

NOTE

Make sure that the vehicle is standing on a level surface.

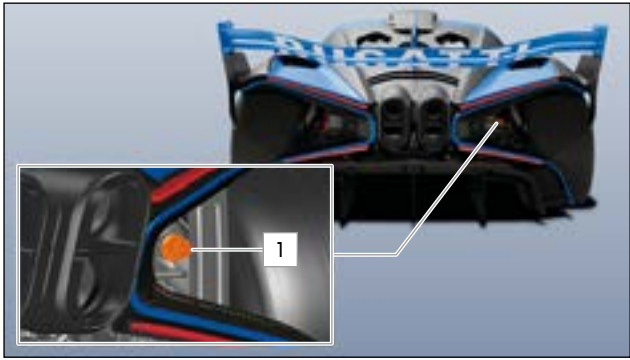


FIG.100 AIR JACK CONNECTION ON THE REAR

1 Air jack connection

- ▶ Ensure that the air jack valve is open.
- ▶ Connect a compatible fitting on a compressed air hose to the valve 1 (» Fig.100). Maximum operation pressure is 40 bar (580.15 psi).
- ▶ Raise the vehicle.
- ▶ Disconnect the hose.
- ☑ The valve 1 (» Fig.100) will close automatically and maintain air pressure in the system and the air jacks in the extended position.

Lowering the vehicle on air jacks

- ▶ Ensure that the compressed air hose is disconnected, that all wheels are secured, and that the area beneath your BOLIDE is clear.
- ▶ Open the valve by pulling the sleeve 1 (» Fig.100) outward.
- ☑ Moving the sleeve slowly will allow a controlled lowering of the vehicle. Rapid release of the sleeve will result in a fast drop of the vehicle.

07

7 MAINTAINING YOUR BUGATTI



7. 1 CLEANING

7. 1. 1 Overview

Careful cleaning and maintenance help preserve your BOLIDE. Degradation and damage from lack of care is not covered by your warranty.

 **CAUTION**

Using the wrong products can damage your BOLIDE. Ask an Authorised BUGATTI Partner about the right cleaning products for your BUGATTI.

 **WARNING**

Dirt, contaminants, incorrect products, and improper parts can interfere with the operation of parts and systems and can contaminate fluids and pipes. That could lead to accident, serious injury, and death.

 **CAUTION**

Follow the instructions associated with the products and parts, particularly as they relate to safety and to the protection of your BOLIDE.

7. 1. 2 Information on vehicle care



Some cleaning products contain chemicals that are hazardous to the environment. Always take precautions to prevent fluids from spilling and never use excessive quantities.

Regular expert care helps preserve your BOLIDE. This may also be one of the requirements for the recognition of warranty claims in the case of corrosion and paint damage on the car body.

The longer spots, dirt and other deposits are left on the surface of parts of the vehicle and the soft fittings (leather and alcantara), the more difficult it can become to clean them off and care for them. In particular, leaving spots, dirt and deposits to act for a long time may mean it is no longer possible to remove them.

Ask an Authorised BUGATTI Partner about the right care products for your BUGATTI.

 **WARNING**

Incorrect care and cleaning of parts of the vehicle can impair the vehicle safety features and cause serious injury.

- ▶ Only clean and care for parts of the vehicle in accordance with the manufacturer's instructions.
- ▶ Always use approved or recommended cleaning agents.
- ▶ Always protect your hands and arms from sharp metal edges, for example when cleaning the underbody or the inside of the wheel housings.

 **WARNING**

Dirty, misty or icy windows will reduce visibility and increase the risk of accidents and serious injury. The car's safety features could be impaired.

- ▶ Only drive once you can see clearly out of all the windows.
- ▶ Do not treat the front windscreen with water-repelling screen coating agents. In unfavourable lighting conditions this could cause you to be dazzled by the glare of the sun.

 **WARNING**

Do not press against any windows as they may break, causing serious injury.

 **WARNING**

Vehicle care products can be dangerous. Unsuitable care products and improper use of care products can cause accidents, severe injury, burns and poisoning.

- ▶ Only store care products in their original sealed containers.
- ▶ Pay attention to the instruction leaflet in the packaging.
- ▶ Never use empty food cans, bottles or other containers to store vehicle care products.
- ▶ Keep children away from all vehicle care products.

 **WARNING (CONTINUED)**

- ▶ When using the products, toxic fumes could develop. For this reason, only use care products outdoors or in a well ventilated room.
- ▶ Never use fuel, turpentine, engine oil or other volatile fluids for washing, caring for, or cleaning vehicles. They are poisonous and highly flammable.

NOTE

Spots, dirt and other deposits which contain aggressive chemicals and solvents will attack the material and can cause irreparable damage, – even after a short period of time.

- ▶ Do not use any solvent-based cleaners.
- ▶ Always have spots, dirt and other deposits removed as quickly as possible and do not let them dry on.
- ▶ Have stubborn spots removed by an Authorised BUGATTI Partner.

7. 1. 3 Washing and waxing the exterior

**CAUTION**

Never drive through a car wash and never use a pressure washer. This could damage the vehicle.

- ▶ Switch off the ignition.
- ▶ Soften dirt and grime with copious amounts of water and rinse.
- ▶ Clean the vehicle with a soft sponge, glove or brush using only light pressure, starting at the roof and working down.
- ▶ Rinse the sponge or glove often and thoroughly.
- ▶ Use car shampoo only for the most stubborn dirt.
- ▶ Wash the wheels and the lower door sills last and use a separate sponge or glove.
- ▶ Rinse the vehicle thoroughly with water.
- ▶ Dry painted surfaces carefully with a chamois.

NOTE

After washing the vehicle, remove water from all recesses. Pay particular attention to the recess on door hinge 1 (» Fig.101).



FIG.101 RECESS ON DOOR HINGE

1 Recess

**WARNING**

Sharp edges on the vehicle can cause injury.

- ▶ Always protect your hands and arms from sharp metal edges, for example when cleaning the underbody or the inside of the wheel housings.

**WARNING**

Never wash the vehicle with a pressure washer. The pressure from the jets can cause damage that is not outwardly visible to the tires.

NOTE

Washing your BOLIDE improperly can cause serious damage to the vehicle.

- ▶ The water temperature must not be above +60°C (+140°F).
- ▶ Never drive your BOLIDE through an automatic car wash. This could damage the vehicle.
- ▶ Do not wash the vehicle with a pressure washer. The powerful jets can damage the vehicle.
- ▶ Washing the vehicle in cold climates: when spraying the vehicle with a hose, avoid spraying water directly into door gaps and locks. Otherwise the locks and seals could freeze!
- ▶ To avoid damaging the paintwork, do not wash the vehicle in the full glare of the sun.
- ▶ Never try to remove dirt, mud or dust when the vehicle surface is dry. Do not use a dry cloth or sponge; as this could damage the paintwork or windows of the vehicle. Soak dirt, mud or dust with plenty of water before removing it.

Waxing the paintwork

Regular waxing protects vehicle paint. If water on the painted surface does not form small droplets and roll off, apply a coat of good wax. A wax coating provides protection against environmental damage and even helps to protect against minor scratches. It also provides protection against minor mechanical effects.

Polishing the paintwork

Polishing gives a new gloss to the vehicle paint. Polishing is only necessary if the paintwork on your BOLIDE has lost its shine, and you cannot restore the shine using wax. The vehicle must be waxed after polishing if the polish used does not contain wax compounds to seal the paint — see , “Waxing the vehicle”.

It is recommended that an Authorised BUGATTI Partner polishes large areas, where necessary.

NOTE

Do not polish or waxing the vehicle if it is wrapped.

NOTE

Incorrect polishing can damage the vehicle.

- ▶ To avoid damage, matt paintwork, plastic parts, headlight lenses and rear lights should not be treated with polish or hard wax.
- ▶ Do not polish or wax your BOLIDE if it is dirty, or in a sandy or dusty environment.
- ▶ For vehicles with a carbon fibre finish, do not use any polish with abrasive additives.
- ▶ It is recommended that an Authorised BUGATTI Partner polishes large areas, where necessary.

BUGATTI emblem cleaning

Clean the BUGATTI emblem as follows:

- ▶ Pre-clean the emblem with a soft cloth.
- ▶ Apply silver polish with a microfibre cloth and polish the emblem until you have reached the optimal shine.

Cleaning the windows, outside mirrors and air vents

Wet the windows with commercially available, alcohol-based glass cleaner. Dry the windows with a clean chamois or lint-free cloth. A chamois used to wipe off paintwork surfaces contains wax residues that can smear and make the glass hard to clean. Rubber, oil, grease or silicone residues can be removed with a glass cleaner or silicone remover.

Wax deposits can only be removed with a special cleaner.

Removing snow

Remove snow from the windows and mirrors with a snow brush.

Removing ice

Use a de-icer spray. If you have to use an ice scraper, push it only in one direction — away from you.

Water-repellent

If you are driving in wet conditions, a water-repellent agent can be used.

1. Clean and dry the surface to be treated.
2. Apply a water-repellent rain treatment product to a clean, dry cloth.
3. Wipe the cloth over the surfaces where the water-repellent is to be applied, using overlapping circular movements.
4. Remove the final mist with a dry cloth or by spraying water and dabbing with a paper towel.

NOTE

Incorrect cleaning can damage the vehicle.

- ▶ Never use warm or hot water to remove snow or ice from the windows and mirrors. The glass could crack!
- ▶ Before driving the vehicle, remove snow, ice and leaves from all air vents to ensure proper ventilation for the engine. Otherwise you risk damaging your engine due to lack of ventilation.

Care of rubber seals

If rubber seals are well maintained, they will not freeze as easily.

- ▶ Remove dust and dirt from the seals with a soft cloth.
- ▶ Treat seals regularly with a suitable rubber care product.

The rubber seals on the doors, windows, etc. will stay soft, flexible and last longer if they are treated with a suitable rubber care product (e.g. silicone spray). Regular care will also help prevent premature aging of rubber, leaks and facilitate ease of door opening.

NOTE

Cover neighbouring surfaces to protect them from overspray when treating rubber seals with silicone spray.

Cleaning aluminium parts

After journeys that include contact with corrosive substances, such as asphalt grit, sea water/foam and other saline substances, external aluminium and magnesium parts must be promptly cleaned by removing these substances. Otherwise car components could lose their shine and be subject to spotting and corrosion.

- ▶ Clean aluminium parts with a moist cloth.
- ▶ Only remove spots or residue on the surface with mild cleaners such as soap solutions, surfactant cleaners, isopropyl alcohol or window cleaners.
- ▶ Polish aluminium parts with a soft, dry cloth.

To help maintain the finish and appearance, cleaning strokes must always be in the same direction.

NOTE

To ensure that aluminium surfaces are not damaged:

- ▶ Do not use any base or alkaline cleaner.
- ▶ Do not use polish or hard wax.
- ▶ Do not use any abrasive cleaners.
- ▶ Do not polish the aluminium surfaces in a sandy or dusty environment.

Light alloy wheels

If driving regularly:

Wash asphalt salt and brake dust from the alloy wheels.

Only treat the wheels with an acid-free cleaning agent, e.g. car shampoo.

To preserve the appearance of the alloy wheels, clean them regularly. Asphalt salt and brake dust that is not removed regularly will initially attack the paintwork and then the alloy.

Use only acid-free cleaning agents for light alloy wheels. Do not use polish or other abrasive products on the wheels. **Do not use wheel cleaning products to clean the wheels! The products contain hydrochloric acid and thus they have a highly aggressive effect on the wheel surface.** If the protective coating is damaged, e.g. by stone chips, repair the damage immediately.

NOTE

To prevent the light alloy wheels from scratching:

- ▶ Only ever use acid-free cleaners. Do not use paint polish, wheel cleaners, or other cleaning agents with an abrasive effect!

Underbody

The entire underbody is closed with carbon plates. The underbody may get damaged while driving, e.g. due to debris on the asphalt.

It is therefore recommended having the underbody regularly inspected by an Authorised BUGATTI Partner.

Cleaning the engine compartment

It is recommended that cleaning of the engine compartment is entrusted only to an Authorised BUGATTI Partner.

This will help ensure complete corrosion protection after cleaning.

7. 1. 4 Cleaning the interior

Cleaning leather or alcantara

General cleaning (incl. CFRP surface)

Clean dirty surfaces with a lightly moistened cotton or wool cloth.

Removing stubborn dirt (not for CFRP surface)

Remove stubborn dirt with a cloth moistened with a mild soap solution (two tablespoons of pure liquid soap diluted in one litre (0.22 gallons) of water).

Be careful to not allow water to soak into the leather/alcantara or the seams.

Wipe with a soft, dry cloth.

Leather care for smooth leather (not for CFRP surface)

All smooth leather in the vehicle is to be cared for as described below.

Treat smooth leather twice a year with a special leather-care product.

- ▶ Apply these products very sparingly.
- ▶ Wipe off with a soft, dry cloth.

BUGATTI does everything possible to preserve the special qualities of natural leather. Because of the exclusive nature of the hides selected, and the natural properties of leather including its sensitivity to oil, grease and dirt, a certain amount of regular care and cleaning is required.

NOTE

To prevent damaging the leather:

- ▶ Never treat leather with solvents, floor wax, shoe polish, stain removers or similar materials.
- ▶ Immediately soak up any spilled liquids with an absorbent cloth as the surface of the leather is not able to withstand the liquid penetrating for any length of time.
- ▶ If the vehicle is left standing in the sun for long periods, protect the leather against direct sunlight to help prevent fading.
- ▶ To help prevent damage, have stubborn spots removed by an Authorised BUGATTI Partner.

Cleaning microfibre material

Removing dust and dirt

- ▶ Lightly moisten a cloth and wipe down the car covers.

Removing spots

- ▶ Moisten a cloth with lukewarm water or a diluted ethyl alcohol solution.
- ▶ Dab the spot toward its centre.

Car shampoo can also be used to remove dust and dirt.

NOTE

To prevent damaging the microfibre material:

- ▶ Never soak microfibre material.
- ▶ Never treat microfibre material with solvents, floor wax, shoe polish, stain removers or similar materials.
- ▶ Do not use any brushes for wet cleaning as this could damage the surface of the material.
- ▶ To help prevent damage, have stubborn spots removed by an Authorised BUGATTI Partner.

Cleaning the racing harnesss

Dirt on the safety belt can prevent it working properly.

- ▶ Keep safety belts clean and check all safety belts for damage regularly.
- ▶ Clean dirty safety belts with a gentle soap solution.
- ▶ Let the safety belt fabric dry.
- ☑ The safety belt has been cleaned.



WARNING

Check all safety belts regularly. If the fabric of the belt or other parts of the safety belt are damaged, immediately have the safety belt removed and replaced by an Authorised BUGATTI Partner. Damaged safety belts are a major risk and can cause serious or fatal injury.

- ▶ Safety belts and their constituent parts must never be chemically cleaned or come into contact with corrosive liquids, solvents or sharp objects. This will significantly impair the strength of the belt fabric.
- ▶ After cleaning, always allow the safety belts to dry completely.
- ▶ Prevent foreign bodies and liquids from entering the belt buckle through the slot for the belt tongue. This can have a detrimental effect on how well the buckle receptacles and safety belts work.
- ▶ Never attempt to repair, modify or remove safety belts yourself.



WARNING (CONTINUED)

- ▶ Have damaged safety belts replaced immediately with new safety belts which have been approved for the vehicle by BUGATTI. Safety belts that have been stressed, and therefore stretched, in an accident must be replaced by an Authorised BUGATTI Partner. Replacement may be necessary even if damage cannot be clearly seen. Additionally, the anchor points of the safety belts should be checked.

The racing belts have a limited effective life. The racing belts have a label stating the FIA expiry date and must be replaced on or before the date indicated.

7. 1. 5 Cleaning the engine compartment

BUGATTI recommends that this be done only by an Authorised BUGATTI Partner.

7. 2 MAINTENANCE AND REPAIRS

7. 2. 1 General



WARNING

Failure to heed these warnings could lead to serious injury and death.

- ▶ Do not perform any maintenance on your BOLIDE unless have the knowledge, experience, tools, equipment, and personnel to do so safely and reliably.
- ▶ Do not enter, work in, or touch objects in the engine compartment unless you have the knowledge, experience, tools, equipment, and personnel to do so safely and reliably.
- ▶ If in doubt, consult an Authorised BUGATTI Partner.
- ▶ Never work in the engine compartment when it is hotter than ambient air temperature.

7. 2. 2 Fluids, parts, and repairs

All fluids (e.g., oils, lubricants, coolants) and all parts (e.g., spark plugs, belts, filters, cabling) are subject to constant improvement. So are maintenance and repair methods.

All topping off, maintenance, and repairs must be performed by an Authorised BUGATTI Partner. You are responsible for ensuring that all maintenance and repairs are performed and performed properly.



CAUTION

Use of unapproved fluids, parts, and methods may damage your BOLIDE and void your warranty in whole or in part.



WARNING

Use of unapproved fluids, parts, and methods could lead to accident, serious injury, and death.

7. 2. 3 Approved fluids

System	Specification	Capacity
Engine Oil	Castrol Bugatti 10W-60	26 l
Transmission oil	Fuchs Titan FFL-3 Plus	17 l
Brake fluid	Brembo HTC 64T	<2 l
Fuel	>RON102	88 l (19.35 g)
Front differential	Castrol Transmax LS 75W-90	600 ± 25 ml
Longitudinal lock	Castrol Halbot 309F	620 ± 50 ml
Rear differential	Castrol Transmax LS 75W-90	1700 ± 50 ml
Hydraulic steering	Pentosin CHF 202	1.5 l (+0.5 l)
Ac fluid	R1234YF	720 g

Your BOLIDE comes with a 50-50% water-glycol cooling mixture. This blend safeguards against corrosion during standstill periods and prevents freezing in cold environments, such as when being transported in an aircraft. However, for enhanced efficiency under severe track conditions, BUGATTI recommends replacing the 50-50% mixture with a 97-3% blend to ensure the maximum cooling performance (before engaging in track driving). This procedure must be carried out exclusively by Authorised BUGATTI Partner prior to any track driving to safeguard against rigorous conditions. Have the Partner return the coolant mixture to the original 50-50% ratio after track driving if your BOLIDE will be stored or transported.

7. 2. 4 Battery charging

Warning notes on handling the vehicle battery

Symbol	Meaning
	Always wear eye protection!
	Fires, sparks, open lights and smoking are prohibited!
	A highly explosive mixture of gases occurs when the battery is being charged!
	Keep children away from batteries!

 **WARNING**

Working on the battery or the electrical system in your BOLIDE can cause serious chemical burns, electric shocks and fires. Before working, always read and pay attention to the warning notices and safety precautions:

- ▶ Before carrying out any work on the vehicle battery, switch off the ignition and all electrical consumers and disconnect both the negative cables from the vehicle battery.

 **WARNING (CONTINUED)**

- ▶ Always keep children away from the car battery.
- ▶ Always wear eye protection.
- ▶ Never smoke and never work near open flames or sparks.
- ▶ Never create sparks or electrostatic discharges when handling cables and electrical equipment.
- ▶ Never short-circuit the battery poles.
- ▶ Never use a damaged vehicle battery. It could explode. Replace a damaged vehicle battery immediately.

NOTE

- ▶ Do not disconnect or connect vehicle batteries if the ignition is switched on or if the engine is running. Damage could otherwise be caused to the electrical system or electronic components.
- ▶ Do not expose the vehicle battery to direct sunlight for long periods of time; as the sun's ultraviolet rays can damage the battery housing.
- ▶ Protect the vehicle battery from frost if left standing for a long time at temperatures below -20°C [-4°F) so that the battery does not "freeze" which would destroy it.

Warning and indicator lamps

The following warning and indicator lamps can illuminate on the display.

Symbol	Meaning
	Alternator fault Switch off any consumers which are not absolutely necessary. The vehicle battery is not being charged by the alternator while driving. Notify an Authorised BUGATTI Partner and have the electrical system checked.
	Battery is not charge, while engine is off.

Replacing the vehicle battery

If starting problems occur due to insufficient battery voltage, this can indicate that the battery is defective. In this case, we recommend having the vehicle battery checked by an Authorised BUGATTI Partner and replaced if necessary.

Contact an Authorised BUGATTI Partner if the vehicle battery has to be replaced.

 **WARNING**

Incorrect attachment and use of the wrong vehicle batteries can cause short circuits, fire and serious injury.

- ▶ Make sure you always use maintenance-free and leak-proof vehicle batteries which have the same properties, specifications and dimensions as the vehicle battery installed in the factory. The specification is listed on the battery housing.

Connecting the battery maintainer

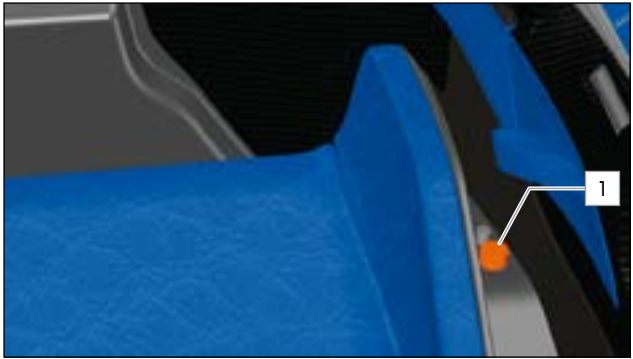


FIG.102 BATTERY MAINTAINER CONNECTOR NEXT TO THE PASSENGER SEAT

1 Connector socket

The connector socket for the battery maintainer is next to the passenger seat.

- ▶ Switch the Ignition and the Master Switch off, charging display can appear (» Fig.104).
- ▶ Connect the battery maintainer to an available power outlet.
- ▶ Push the connector of the charging cable into the connector socket 1 (» Fig.102) until it is heard to click into place.

 **WARNING**

Incorrect operation and use of the wrong cables can cause short circuits, fire and serious injury.

- ▶ Only use the cables supplied.
- ▶ Always keep the battery maintainer and the cables away from water and never let them get wet.
- ▶ Always connect the battery maintainer to a grounded power outlet that is protected against water.
- ▶ Check the cable for damage every time before you use it.
- ▶ A damaged cable must be replaced with an identical cable.
- ▶ Closing the door can damage the charging cable.

 **CAUTION**

- ▶ Do not attempt to attach a battery maintainer/trickle charger directly to the battery.
- ▶ Do not use an incompatible battery maintainer/trickle charger.
- ▶ Keep the battery maintainer/trickle charger grounded and protected against water.
- ▶ Check for damage before using the battery maintainer/trickle charger and periodically while using it.

Charging the BUGATTI battery

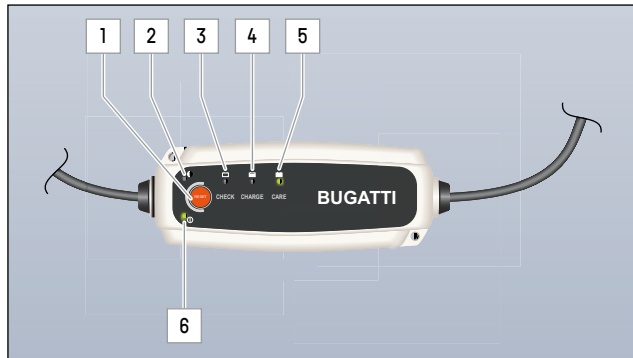


FIG.103 BUGATTI XS 5.0 BATTERY CHARGER

- 1 RESET button: reset charging cycle button
- 2 LED: Application fault (error) or device fault (e.g. charger not correctly connected)
- 3 LED: battery check
- 4 LED: battery charging
- 5 LED: battery completely charged
- 6 LED: charger connected (power on)

**WARNING**

- ▶ The charger is only designed for charging batteries according to the technical specification. Do not use the charger for any other purpose.
- ▶ Always follow battery manufacturers' user and safety recommendations.
- ▶ Never try to charge non-rechargeable batteries.
- ▶ Never place the charger on top of the battery or cover the charger when charging.
- ▶ Never charge a frozen or damaged battery.
- ▶ Never use a charger with damaged cables. Make sure that the cables have not been damaged by hot surfaces, sharp edges or in any other way.
- ▶ Never place a fan-cooled product so that dust, dirt or similar can be sucked into the fan.
- ▶ A damaged cable must be replaced by a retailer using an original part. A detachable cable can be replaced by the user using an original part applied by a retailer.
- ▶ Never extend the charger cable to a total length of more than 5.0 meters. Only use original parts from Authorised BUGATTI Partners.
- ▶ Extension of output cable may cause electromagnetic interference.
- ▶ Connection to the mains supply must be in accordance with the national regulations for electrical installations.

**WARNING (CONTINUED)**

- ▶ Chargers with earthed mains plug must only be connected to a earthed socket outlet.
- ▶ During charging, lead-acid batteries can emit explosive gases. Prevent sparks close to the battery. Provide good ventilation for the device.
- ▶ Chargers with IP-class lower than IPX4 are designed for indoor use. See technical specification. Do not expose to rain or snow.
- ▶ Disconnect the charger from the mains supply. Then unplug the battery charger from the vehicle.
- ▶ Do not leave any battery unattended for a long period of time during charging. If any error occurs disconnect the charger manually.

**WARNING**

(IEC 7.12 ed.5) This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the device by a persons responsible for their safety. Children should be supervised to ensure that they do not play with the device.

**WARNING**

(EN 7.12) This device can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the device in a safe way and understand the hazards involved. Children must not play with the device. Cleaning and user maintenance must not be performed by children without supervision.

BUGATTI XS 5.0 battery charger

This battery charger and conditioner represents the state-of-the-art technology for battery charging and maintenance. The charger is fully automatic.

Charging

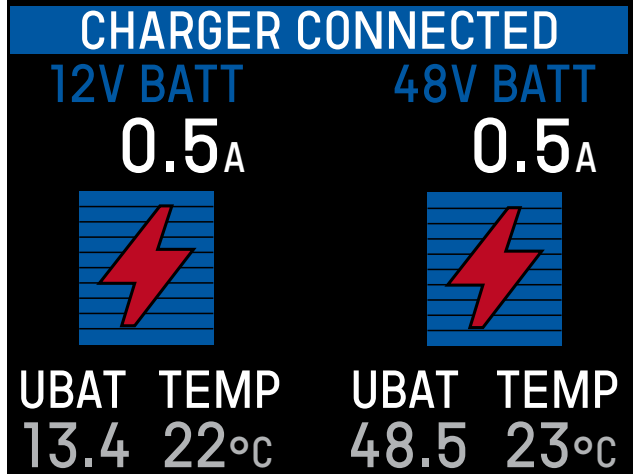


FIG.104 CHARGING DISPLAY OVERLAY PAGE

- ▶ Connect the charger to the connection socket 1 (» Fig.102) located next to the passenger seat.
- ▶ Connect the charger to the wall socket.
- ▶ Switch the Ignition and the Master Switch off (» page 150). Charging display can appear if the 48 V battery needs to be charged (» Fig.104).
- ▶ LED 4 (» Fig.103): charging mode will start.
- ▶ You can monitor the charging procedure on the charger itself or on the display
NOTE: The battery is fully charged when the display 5 (» Fig.103) is lit.
- ▶ Disconnect the battery charger from the connector when green LED 5 (» Fig.103) turns on. Means that the battery is fully charge.

NOTE

Disconnect the charger as soon as possible when green LED 5 (» Fig.103) turns on, otherwise the battery will discharge.

NOTE

Check battery state every month.

Charging program

Step 1 - Accepting

- Tests if the battery can accept charge. This step prevents that charging proceeds with a defective battery.

Step 2 - Bulk

- Charging with maximum current up to approximately 90% of the battery capacity.

Step 3 - Absorption

- Charging with declining current to maximize up to 95% of the battery capacity.

Step 4 - Analysis

- Tests if the battery can hold charge. Batteries that cannot hold charge may need to be replaced.

Step 5 - Reconditioning cycle

- Final charge with reduced current.

Step 6 - Maximisation

- Final charge with maximum voltage up to 100% of the battery capacity.

Step 7 - Fully charge

- Remove the charger.

Error LED

- ▶ If the error LED 2 (» Fig.103) lights up, press the RESET button 1 (» Fig.103).

If the error happens again:

- ▶ In : The battery cannot accept the charge, or a parallel load may be connected to the battery.
- ▶ In : The battery cannot hold the charge and may need to be replaced.

Power LED

When the power LED 6 (» Fig.103):

- Is constantly lit
The mains cable is connected to the wall socket.
- Is flashing
The charger has entered the energy save mode. This happens if the charger is not disconnected from the battery within 2 minutes.

7. 3 BUGATTI ASSISTANCE

7. 3. 1 BUGATTI assistance

If your BUGATTI is immobilised, contact an Authorised BUGATTI Partner.

7. 3. 2 Moving the vehicle by pushing

To move your BOLIDE manually from the position, you can only press the following points on the car:

- A pillar area (» Fig.105) and
- B pillar area (» Fig.106).

 **CAUTION**

Do not press on any other places e.g. windows, rear wing, rims or front bonnet as they may break and cause severe injury.



FIG.105 A PILLAR AREA

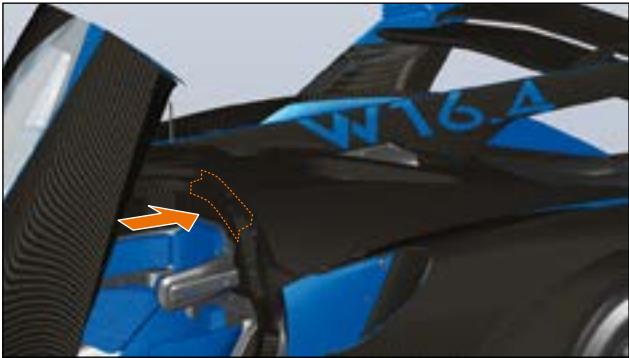


FIG.106 B PILLAR AREA

7. 3. 3 Towing eyes

Your BOLIDE is equipped with front and rear towing eyes for the attachment of winches to pull your BOLIDE onto a flat bed.



CAUTION

Never pull your BOLIDE farther than the distance needed to get it onto a flat bed. Doing so could damage the gearbox.
You must put the gearbox in position **N** or use the emergency gearbox parking release before pulling the BOLIDE, see » page 156.



FIG.107 FRONT TOWING EYE

1 Front towing eye



FIG.108 REAR TOWING EYE

2 Rear towing eye

7. 4 STORAGE

Always store your BUGATTI on level ground in a secured, covered, enclosed, climate controlled, cool (between 10°C (50°F) and 40°C (104°F)) and dry (between 30% and 95% humidity) location.

 **WARNING**

Keep people, especially children, out of the storage area. Your BOLIDE needs no key to start the engine. Allowing unauthorized persons near your BOLIDE could lead to serious injury and death.

When storing:

- Ensure the ignition switch is off.
- Ensure the battery is fully charged before turning off the master switch.
- Install foam protection on the tires.
- Drain all fuel.
- Replace the racing glycol mixture with the storage mixture (see » page 222).
- Cover the vehicle.
- Recognize that if you store your BOLIDE on its tires those tires will be unfit for track use due to carcass deformation.

Transporting

- Your BUGATTI must only be transported using the transport wheels set.
- If your BUGATTI is being transported fix the car at the wheels.
- If your BUGATTI is being transported for a long period of time ensure the engine is started and run every 2 weeks.

7. 5 END OF LIFE/SCRAPPING/ RETURN

BUGATTI can assist when your BOLIDE needs to be recycled in a lawful and environmentally friendly manner. There is a network of systems available to take back an old vehicle in many European countries. Recycling your BOLIDE is basically free of charge there, subject to local legal requirements.

Contact an Authorised BUGATTI Partner for assistance in the Americas and Canada.

08

8 VEHICLE DATA



8.1 UNITS

Data in the official vehicle documents always has priority.

Abbreviation	Meaning
kW	Kilowatt, power specification of the engine
HP	Horse Power, (old) power specification of engine
rpm	Revolutions per minute (engine speed)
Nm	Newton meters (unit of engine torque)
l/100 km (g/m)	Fuel consumption in litres per 100 km (gallons per miles)
g/km (g/m)	Quantity of carbon dioxide generated in grams per kilometre (grams per mile) driven
CO2	Carbon dioxide
RON/ROZ (pump rate)	Research Octane Number/Research Oktanzahl, unit for determining the knock resistance of petrol

8.2 IDENTIFICATION NUMBERS

The vehicle serial number is attached to the monocoque on the driver side, under the leg padding.

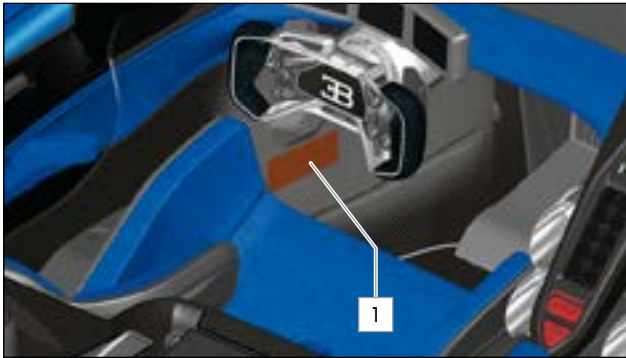


FIG.109 SERIAL NUMBER ON THE DRIVER SIDE

The engine ID is machined directly into the lower part of the engine block.

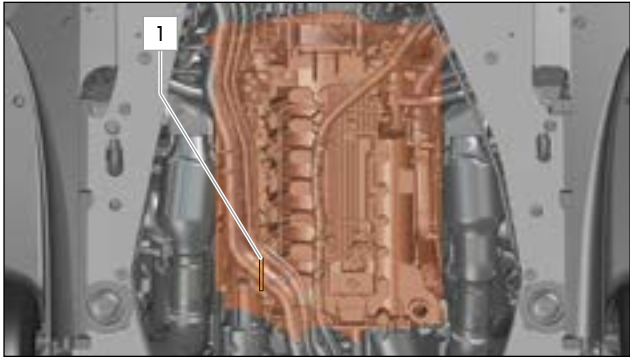


FIG.110 ENGINE ID

The gearbox ID is machined directly into the middle part of the engine block.

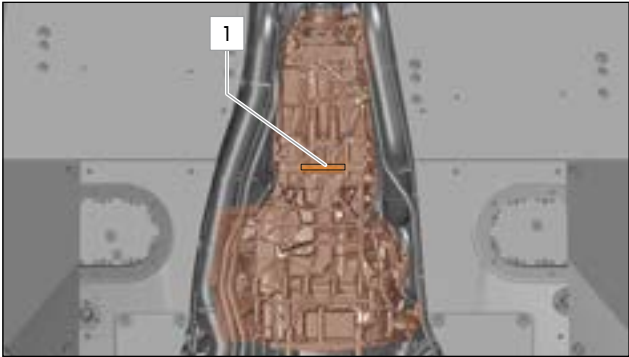


FIG.111 GEARBOX ID

8. 3 PROPULSION DATA

Data for the basic model are shown. Values may differ due to additional equipment, model variations, special-order vehicles and country-specific equipment. Data in the official vehicle documents always has priority.

Engine data	
Power	1600 hp/1177 kW
Maximum torque	1600 Nm
Number of cylinders Displacement	16 cylinders, 7993 cm ³ (487.76 cubic inches)
Fuel	R0N/R0Z 102 (pumpate 96)
Power transmission	7-gear direct-shift gearbox DSG®

Vehicle data	
Top speed	380 km/h (236 mph)

Capacities	
Fuel tank	88 l (19.35 g)

8. 4 FLUIDS IN THE CLIMATE
CONTROL SYSTEM

8. 4. 1 Climate control system with refrigerant
R1234yf

The sticker placed on the front nose under the front bonnet, provides information on type and quantity of refrigerant used in the vehicle's climate control system.

 **WARNING**

To ensure safe and hazard-free operation, the climate control system must only be serviced by an Authorised BUGATTI Partner.

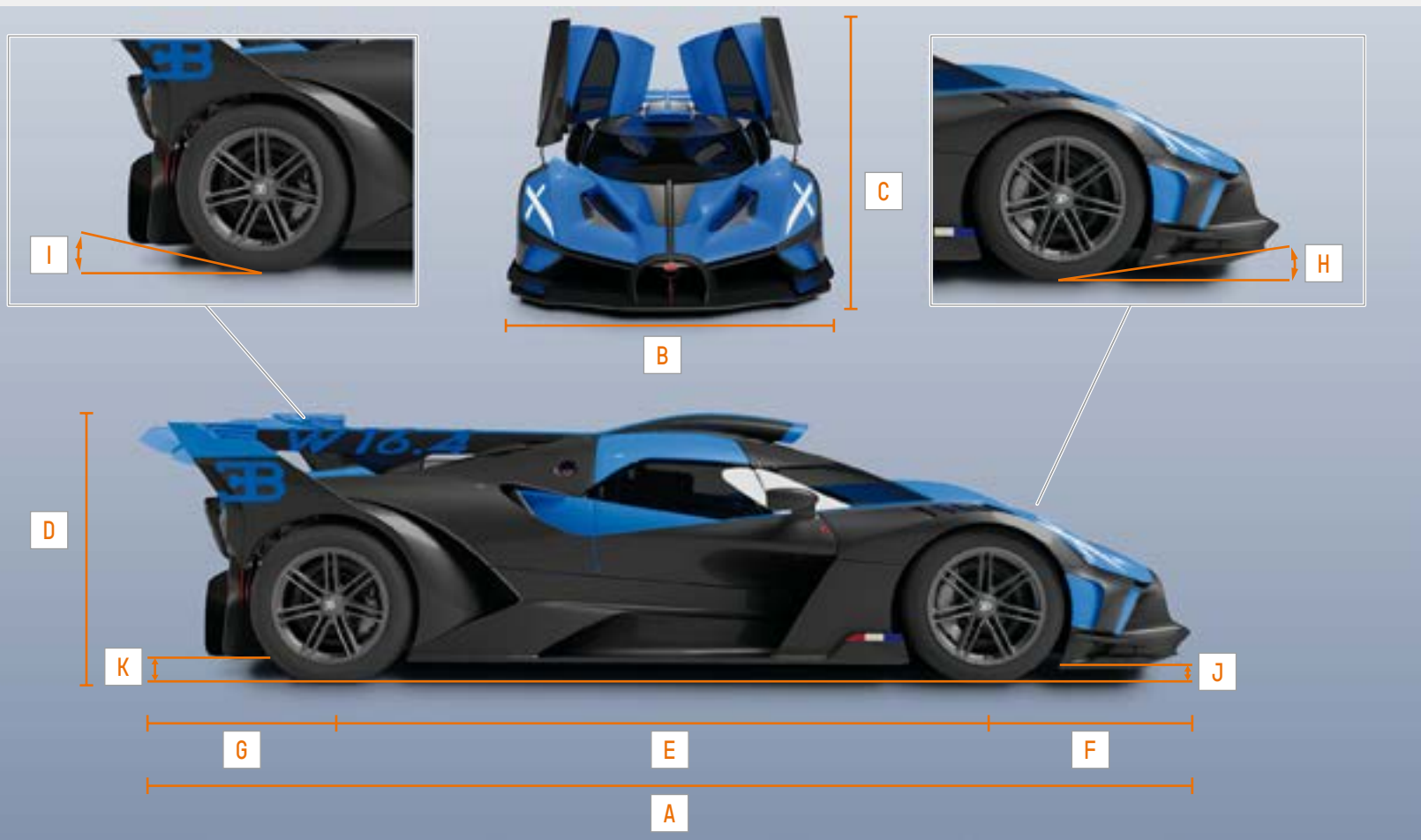
8. 5 VEHICLE OPERATING
TEMPERATURES

Minimum ambient operating temperature	+10°C (+50°F)
Maximum ambient operating temperature	+35°C (+95°F)

NOTE

If the vehicle is operated outside the minimum and maximum ambient temperature ranges, performance degradation may be experienced.

BUGATTI disclaims any liability of the stated engine power not being achieved if the vehicle is being used outside of the stated temperature ranges or being used at altitude.



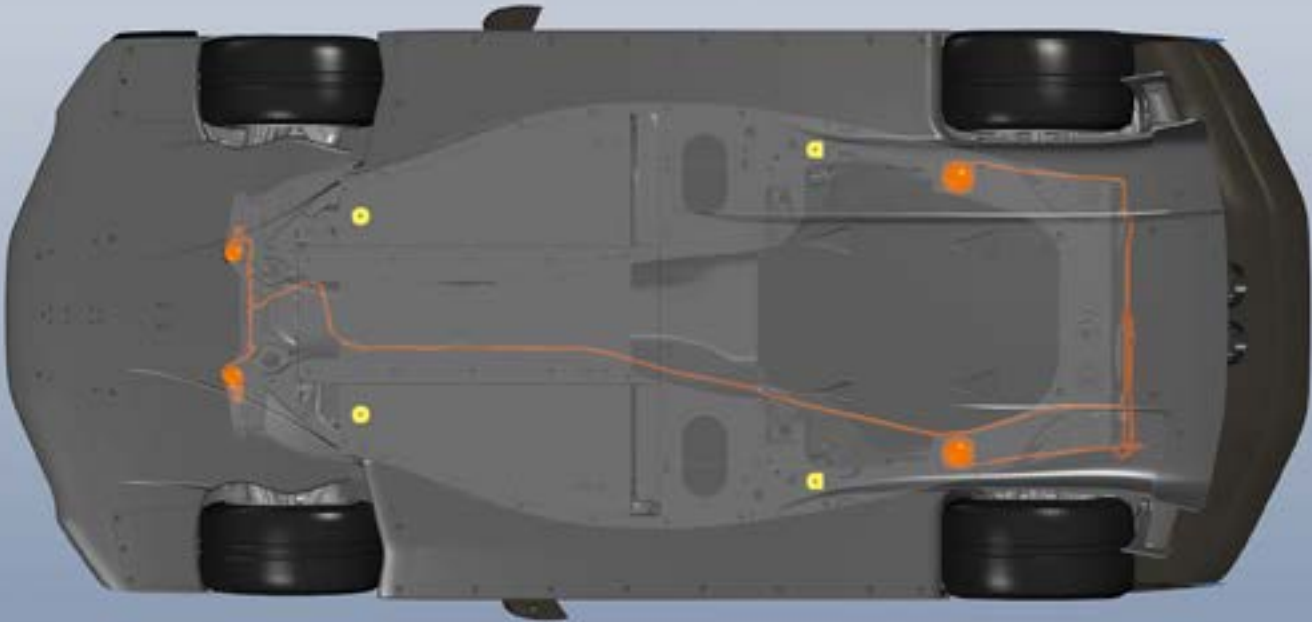
8. 6 DIMENSIONS AND WEIGHT

Data for the basic model are shown. Values may differ due to additional equipment, model variations, special-order vehicles and country-specific equipment. Data in the official vehicle documents always has priority.

Dimensions		
A	Length	4.835 m (190.354 inch)
B	Width	2.1 m (82.677 inch) 2.3 m (90.551 inch) external mirrors included
C	Height with open doors	1.800 m (70.866 inch)
D	Height	1.150 m (45.276 inch)
E	Wheelbase	2.750 m (108.268 inch)
F	Track front	1.739 m (68.465 inch)
G	Track rear	1.735 m (68.307 inch)
H	Slope angle front	5.4°
I	Slope angle rear	7.5°
J	Static standard ride height front	64 mm (2.520 inch)
K	Static standard ride height rear	86 mm (3.386 inch)

FIG.112 DIMENSIONS AND WEIGHT OF THE BOLIDE

Running weight: depends on car configuration	
Curb weight	1,600 kg (3,527 lbs)
Front distribution	44.43% front
Lateral distribution	48.99% right
Total mass CoG height from GND	394.5 mm (15.531 inch)



8. 6. 1 Lifting points

	WARNING
Make sure that the vehicle is standing on a level surface.	

The vehicle can only be lifted with the air jack system (orange) (» page 206) and/or at the lifting points (RPS) (yellow) with a jack or lifting platform.

FIG.113 LIFTING POINTS

8. 7 REGULATORY INFORMATION

Conformity information - information related to chemical substances and radio frequencies devices present on this vehicle, can be found on the following website:
<https://www.bugatti.com/as/regulatory-information>



Radio frequency - your BOLIDE has various radio devices (TPMS). The manufacturers of these devices declare that their radio equipment complies with various regulations worldwide. Please find this information available on the following website:
<https://www.bugatti.com/as/regulatory-information>



As required by the FCC

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

09

9 SERVICE SCHEDULE



9.1 SERVICE PRODUCTS, FLUIDS AND CAPACITIES

 **WARNING**

When handling, storing and disposing of any service products, please observe the relevant regulations. Failure to do so could endanger people and the environment. Do not allow service products to come into direct contact with your eyes or open wounds. Contact a doctor immediately if any service product is swallowed.

 Environmental protection

Dispose of service products in an environmentally responsible manner.

Service products are fuel, engine oil, coolant and brake fluid. BUGATTI recommend that you only use products tested and approved for the BUGATTI BOLIDE. Damage resulting from using non-approved service products is not covered by the liability for material defects.

The following table provides the fluid specification for BUGATTI BOLIDE.

System	Specification	Capacity
Engine Oil	Castrol Bugatti 10W-60	26 l
Transmission oil	Fuchs Titan FFL-3 Plus	17 l
Brake fluid	Brembo HTC 64T	<2 l
Fuel	>RON102	88 l (19.35 g)
Front differential	Castrol Transmax LS 75W-90	600 ± 25 ml
Longitudinal lock	Castrol Halbot 309F	620 ± 50 ml
Rear differential	Castrol Transmax LS 75W-90	1700 ± 50 ml
Hydraulic steering	Pentosin CHF 202	1.5 l (+0.5 l)
Ac fluid	R1234YF	720 g

9. 2 DOCUMENTATION OF VEHICLE DELIVERY

This entry contains the delivery date of the vehicle from the BUGATTI Molsheim factory.

Delivery
Date:
Vehicle Identification No.:
Engine Code:
Place of Delivery:
Stamp

9. 3 DOCUMENTATION OF DELIVERY INSPECTION

The stamp of an Authorised BUGATTI Partner confirms the pre-delivery inspection (PDI).

PDI carried out
Date:
Vehicle Identification No.:
Stamp of an Authorised BUGATTI Partner

9. 4 SERVICE INTERVALS

The following pages describe the important service procedures that must be performed on your BOLIDE by an Authorised BUGATTI Partner. The service scopes specified there are current as of the date of printing of this Service Schedule.

BUGATTI reserves the right to make changes retrospectively. This schedule may have been updated since it was printed.

9. 4. 1 Summary of maintenance schedule

Regular maintenance

Scope of work:	Service TIME	Service KM (MI)
Engine oil and filter	1 year or	2,500 km (1,553 miles)
Brake fluid		
Control box battery Fire.E		

Scope of work:	Service TIME	Service KM (MI)
Air jack system	5 year	-
Safety door release	5 year or	10,000 km (6,213 miles)

Mandatory before track drive and checklist

(including yearly service if not done)

Scope of work:	Service TIME	Service KM (MI)
Haldex oil	Track driving service	2,500 km (1,553 miles)
Brake fluid	Track driving service	
New tires	Track driving service	60 km (37 miles)

After certain kilometres (miles) driven

Scope of work:	Component	Service KM (MI)
Chassis-Wheels	Tires	60 km (37 miles)
	Wheel nut assy	2,000 km (1,243 miles)
Powertrain	Engine air filter	2,500 km (1,533 miles)
	Hydraulic oil and filter	
	Haldex oil	

Scope of work:	Component	Service KM (MI)
Chassis	AC fluid and drier	5,000 km (3,106 miles)
	Air jack system	
	Driveshaft assembly left side	
	Driveshaft assembly right side	
	Steering rack and pinion	
	Dampers	
Chassis-Wheels	Rims	
Chassis-Brakes	Brake master cylinder	
Powertrain-Engine	Engine coolant (drain/fill)	
	Engine revision	
Powertrain-Gearbox	Gearbox oil and filter	
	Gearbox accumulator	
	Front axle oil	
Powertrain-Differencial	Rear axle with flanges	
	Rear axle oil	

SERVICE SCHEDULE

Scope of work:	Component	Service KM (MI)
Body	Safety door release	10,000 km (6,213 miles)
Chassis-Brakes	Brake temperature sensor	
	Brake calipers FR and FL	
	Brake calipers RR and RL	
	Brake bells rear	
	Brake bells front	
Chassis	Wheel hubs and bearings RL and RR	
	Wheel hubs and bearings FL and FR	
	Wishbones	
	Pushrods rear assy	
	Pushrods front assy	
	Anti-roll bar assembly	
	Rockers	
	Suspension ball joints	
	Suspension studs	
	Suspension clevis	
	Uprights	
	Toe link	
	Steering column	

SERVICE SCHEDULE

Scope of work:	Component	Service KM (MI)
Body	Rear wing pillars	15,000 km (9,320 miles)
	Lateral underwing	
	Wing profiles	
	Rear endplate	
	Front wing pillars	
Chassis-Brakes	Pedalbox	

9. 4. 2 Expiring components

The following components must be replaced no later than the expiry date on the label affixed to each:

- Fire extinguisher
- Fuel bladder
- Safety belt
- Seat pads

9. 4. 3 Tires

Durability of the tires

The use of old or worn tires during tests or races can cause you to lose control of the vehicle and thus endanger your own safety.

Mounted on rims:

- The tires must be replaced after 60 km (37 miles).
- The tires must not be older than 1 years.
- The tires must be replaced before every track session.

Stored:

- Wet / DOT - We recommend using Michelin Competition tires within a maximum of **3 years** following their date of productions (within 4 months in the event of storage in severe tropical- type conditions).
- Slick / DOT - We recommend using Michelin Competition tires within a maximum of **5 years** following their date of productions (within 4 months in the event of storage in severe tropical- type conditions).

9. 4. 4 Additional service

Additional service depending on time and/or mileage

In addition to the service inspections and intervals listed in the Service Schedule, additional maintenance may have to be performed on your BOLIDE, depending on your vehicle’s equipment and the operating conditions.

Additional services must be performed depending on the time and/or mileage to ensure that your BOLIDE keeps running smoothly for years to come. An Authorised BUGATTI Partner will inform you in detail about the additional service that your BOLIDE may require. It is also possible to perform these additional services between the service intervals, taking the entries in the Service Schedule into consideration. An Authorised BUGATTI Partner can advise you individually.

9. 4. 5 Documentation/Final checking

- Service Schedule entries: verify entries and completeness.
- Read fault memory, print it out, and check if faults are stored; only delete them after checking.
- Clean the vehicle interior and exterior.
- Prepare the vehicle document folder and a copy of the service inspection documentation to be handed over to the customer.

9. 5 RACETRACK DRIVING LOG

Date	Racetrack location	Kilometres/ miles driven	Comments

Date	Racetrack location	Kilometres/ miles driven	Comments

Date	Racetrack location	Kilometres/ miles driven	Comments

Date	Racetrack location	Kilometres/ miles driven	Comments

9. 6 PROOF OF SERVICE

An Authorised BUGATTI Partner will confirm to you which services have been performed by putting a tick in the corresponding checkbox. This will give you a clear overview, and will rule out misunderstandings.

Service Record 1

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 2

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 3

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 4

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 5

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 6

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 7

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 8

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 9

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 10

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 11

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 12

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 13

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 14

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 15

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 16

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 17

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 18

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 19

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 20

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 21

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 22

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 23

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 24

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

Service Record 25

Service performed	Yes	No
Service inspection	☐	☐
Date:		
Mileage:		
Comments:		
Service carried out by:		
Stamp of an Authorised BUGATTI Partner		

10

10 WARRANTY



10. 1 BUGATTI NEW VEHICLE LIMITED WARRANTY

10. 1. 1 WARRANTY LIMITATIONS AND DISCLAIMERS

THE NEW VEHICLE LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY MADE IN CONNECTION WITH THE SALE OF THE COVERED VEHICLE. ANY IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS LIMITED IN DURATION TO THE STATED PERIOD OF THE NEW VEHICLE LIMITED WARRANTY, EXCEPT IF THE DURATION OF IMPLIED WARRANTIES IS LIMITED BY STATE LAW, THE DURATION IS LIMITED TO THE LENGTH STATED IN THE NEW VEHICLE LIMITED WARRANTY OR THE LENGTH STATED IN THE STATE LAW LIMITATIONS, WHICHEVER IS SHORTER. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE OF THIS DOCUMENT.

Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

THE NEW VEHICLE LIMITED WARRANTY DOES NOT COVER ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF VALUE OF THE COVERED VEHICLE, LOST PROFITS OR EARNINGS, OUT-OF-POCKET EXPENSES FOR SUBSTITUTE TRANSPORTATION OR LODGING, EXPENSES ASSOCIATED WITH RETURNING THE COVERED VEHICLE TO AN AUTHORIZED SERVICE FACILITY OR DEALER, TOWING AND/OR ROADSIDE ASSISTANCE EXPENSES, EXPENSES ASSOCIATED WITH RETURNING THE COVERED VEHICLE BACK TO ITS OWNER, MECHANIC’S TRAVEL TIME OR COMMUNICATION CHARGES, LOSS

OR DAMAGE TO REAL OR PERSONAL PROPERTY, LOSS OR TIME, OR INCONVENIENCE.

Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE NEW VEHICLE LIMITED WARRANTY ONLY COVERS DEFECTS IN MATERIALS OR WORKMANSHIP AS DESCRIBED HEREIN. THE NEW VEHICLE LIMITED WARRANTY DOES NOT COVER DEFECTS IN DESIGN.

NOTHING ELSE IN THE OWNER’S MANUAL OR IN ANY OTHER STATEMENT—including BUT NOT LIMITED TO ADVERTISING, PROMOTIONAL MATERIAL, VIDEOS, AND WEB PAGES— CONSTITUTES A WARRANTY BY BUGATTI.

YOUR ACCEPTANCE, OWNERSHIP, AND USE OF YOUR COVERED VEHICLE CONSTITUTE ACCEPTANCES OF THE WARRANTY LIMITATIONS AND DISCLAIMERS AND OF THE LIMITATIONS OF WARRANTIES CONTAINED HEREIN. YOU MUST REVOKE YOUR ACCEPTANCE OF YOUR COVERED VEHICLE IMMEDIATELY IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL LAW IF YOU CHOOSE NOT TO ACCEPT THESE TERMS.

THE WARRANTY LIMITATIONS AND DISCLAIMERS AND THE NEW VEHICLE LIMITED WARRANTY SECTIONS SHALL BE INTERPRETED AND CONSTRUED IN ACCORDANCE WITH THE LAW OF VIRGINIA.

10. 1. 2 BUGATTI NEW VEHICLE LIMITED WARRANTY

Who is the Warrantor?

Bugatti Automobiles S.A.S. (“BUGATTI”) is the warrantor for the New Vehicle Limited Warranty.

What Vehicle Does the New Vehicle Limited Warranty Cover?

The New Vehicle Limited Warranty applies to the 2024MY BUGATTI BOLIDE that are originally sold by an Authorised BUGATTI Partner in the United States and normally operated in the United States (“Covered Vehicle”).

Whom Does the New Vehicle Limited Warranty Cover?

The New Vehicle Limited Warranty covers the first retail purchaser of the Covered Vehicle and any subsequent owners until the conclusion of the applicable coverage period.

What will BUGATTI do Under the New Vehicle Limited Warranty?

BUGATTI will have covered, warrantable defects in materials or workmanship in a Covered Vehicle repaired, replaced, or adjusted (at BUGATTI’s sole discretion), free of charge, by an Authorised BUGATTI Partner. BUGATTI’s obligations, however, are subject to the conditions, limitations and exclusions set out herein.

When Does the New Vehicle Limited Warranty Coverage Begin?

The New Vehicle Limited Warranty begins on the original in-service date of the Covered Vehicle (“In-Service Date”), which is defined as follows:

- For non-demonstrator or “company car” vehicles, the In-Service Date is the earlier of the following: (a) the day that the Covered Vehicle is delivered to the first retail buyer or lessee, or (b) four weeks after the first retail buyer or lessee is notified that the Covered Vehicle is either ready for pickup or transport.
- For demonstrator or “company car” vehicles, the In-Service Date is the day the Covered Vehicle was first put into service.

When Does the New Vehicle Limited Warranty End?

The duration of the New Vehicle Limited Warranty is two (2) years from the In-Service Date. There is no mileage limitation.

How Do I Obtain Warranty Service?

Whether you are in the United States or outside the United States, in order to obtain covered services under the New Vehicle Limited Warranty, please contact the Authorised BUGATTI Partner from which you purchased your Covered Vehicle or visit the website at [INSERT] for additional details.

All warranty services must be performed by an Authorised BUGATTI Partner, except in the limited circumstances of Emergency Repairs, which are further discussed below.

Emergency repairs

If a service provider other than an Authorised BUGATTI Partner has carried out an emergency repair, you may request an exemption from the requirement that all warranty work be performed by a Partner. Submit all invoices, repair orders, BUGATTI original parts which have been removed, and an explanation of the need for emergency repair to BUGATTI for consideration. BUGATTI will evaluate the circumstances, including whether it was not possible or would have been unreasonable to expect you to drive or have your BUGATTI transported to the nearest Authorised BUGATTI Partner.

In order for BUGATTI to consider whether to reimburse your expenses for an Emergency Repair, you must provide it and/or an Authorised BUGATTI Partner, a detailed description of the circumstances which prevented you from going to an Authorised BUGATTI Partner, a copy of any repair invoice, and a copy of all receipts.

What is Not Covered by the New Vehicle Limited Warranty?

The New Vehicle Limited Warranty does not include or cover any vehicle that is used or maintained for the purpose of conducting a commercial or professional automobile rental business, including any vehicle which is a part of the inventory of such rental business or any vehicle rented or leased to another person or entity for their use of the vehicle as part of any business transaction.

The New Vehicle Limited Warranty does not cover any vehicle that has had its mileage odometer changed and/or manipulated or from which the mileage cannot be ascertained. If the

speedometer needs to be replaced, then a BUGATTI customer advisor or an Authorised BUGATTI Partner needs to prepare a "Report on the replacement of a speedometer".

In addition, the New Vehicle Limited Warranty does not cover damage, failures, or malfunctions caused by the following:

- Misuse or neglect;
- Normal wear and tear;
- Improper maintenance, including but not limited to failure to properly maintain the Covered Vehicle in accordance with the BUGATTI BOLIDE Owner’s Manual;
- Modifications to the Covered Vehicle, including but not limited to the installation of other parts and accessories;
- Accidents;
- Industrial air pollution (e.g. acid rain), bird droppings, stones, flood water, storms, tree sap, fire, lightning, or other natural phenomena or environmental conditions;
- Salt or other similar road de-icing substances;
- Improper repair of the Covered Vehicle;
- Installation of parts which are not original or approved BUGATTI parts;
- Continuing use or operation of a Covered Vehicle after a warning indicator in the Covered Vehicle indicates a mechanical or operational problem;
- Improper or contaminated fuels, fluids or lubricants; and
- Non-genuine parts, accessories, or other equipment which are not approved by BUGATTI for use on the Covered Vehicle.

Moreover, the New Vehicle Limited Warranty does not cover the following:

- Any non-genuine parts, accessories, or other equipment which are not approved by BUGATTI for use on the Covered Vehicle;
- The tires equipped on the Covered Vehicle, which are subject to a separate warranty issued by the tire manufacturer. Please contact the tire manufacturer for more details;
- Windshields or windscreens;
- Deterioration of any soft trim and appearance of items due to wear and prolonged exposure;
- Renewal of brake calipers and brake pads due to general wear or abnormal use of the brakes;
- Clearing of fuel lines, filters, injectors, pumps or any other component within the fuel delivery system including damage to components resulting from the use of incorrect or contaminated fuel;
- Wheel balancing, general adjustments, de-carbonation, batteries, bulbs, water ingress, and exhaust system;
- Tools, battery conditioners and other items that may be supplied with but are not integral part of the Covered Vehicle;
- Normal maintenance services or replacement of service items; including but not limited to spark plugs, oil filters, lubricants, drive belts and other items fitted in connection with routine servicing;
- Any consumables, parts and labor costs incurred as a result of, or in connection with, required or recommended maintenance service;

- Any vehicle declared a total loss by an insurance company;
- Custom-made products installed or included in a Covered Vehicle that were manufactured due to a special request or order by the first retail purchaser (for example, a special color of paint or leather /alcantara or special materials never used before);
- Parts or accessories not sold by BUGATTI; or
- BUGATTI parts or accessories not installed on the Covered Vehicle by an Authorised BUGATTI Partner at the time of the In-Service Date.

10. 1. 3 What Other Limitations Apply to the New Vehicle Limited Warranty?

As also stated in the “Warranty Limitations and Disclaimers,” the following applies:

THE NEW VEHICLE LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY MADE IN CONNECTION WITH THE SALE OF THE COVERED VEHICLE. ANY IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS LIMITED IN DURATION TO THE STATED PERIOD OF THE NEW VEHICLE LIMITED WARRANTY, EXCEPT IF THE DURATION OF IMPLIED WARRANTIES IS LIMITED BY STATE LAW, THE DURATION IS LIMITED TO THE LENGTH STATED IN THE NEW VEHICLE LIMITED WARRANTY OR THE LENGTH STATED IN THE STATE LAW LIMITATIONS, WHICHEVER IS SHORTER. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE OF THIS DOCUMENT.

Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

As also stated in the “Warranty Limitations and Disclaimers,” the following applies:

THE NEW VEHICLE LIMITED WARRANTY DOES NOT COVER ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF VALUE OF THE COVERED VEHICLE, LOST PROFITS OR EARNINGS, OUT-OF-POCKET EXPENSES FOR SUBSTITUTE TRANSPORTATION OR LODGING, EXPENSES ASSOCIATED WITH RETURNING THE COVERED VEHICLE TO AN AUTHORIZED SERVICE FACILITY OR DEALER, TOWING AND/OR ROADSIDE ASSISTANCE EXPENSES, EXPENSES ASSOCIATED WITH RETURNING THE COVERED VEHICLE BACK TO ITS OWNER, MECHANIC’S TRAVEL TIME OR COMMUNICATION CHARGES, LOSS OR DAMAGE TO REAL OR PERSONAL PROPERTY, LOSS OR TIME, OR INCONVENIENCE.

Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

As also stated in the “Warranty Limitations and Disclaimers,” the following apply:

THE NEW VEHICLE LIMITED WARRANTY ONLY COVERS DEFECTS IN MATERIALS OR WORKMANSHIP AS DESCRIBED HEREIN. THE NEW VEHICLE LIMITED WARRANTY DOES NOT COVER DEFECTS IN DESIGN.

NOTHING ELSE IN THE OWNER’S MANUAL OR IN ANY OTHER STATEMENT—including BUT NOT LIMITED TO ADVERTISING, PROMOTIONAL MATERIAL, VIDEOS, AND WEB PAGES—CONSTITUTES A WARRANTY BY BUGATTI.

YOUR ACCEPTANCE, OWNERSHIP, AND USE OF YOUR COVERED VEHICLE CONSTITUTE ACCEPTANCES OF THE WARRANTY

LIMITATIONS AND DISCLAIMERS AND OF THE LIMITATIONS OF WARRANTIES CONTAINED HEREIN. YOU MUST REVOKE YOUR ACCEPTANCE OF YOUR COVERED VEHICLE IMMEDIATELY IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL LAW IF YOU CHOOSE NOT TO ACCEPT THESE TERMS.

THE WARRANTY LIMITATIONS AND DISCLAIMERS AND THE ENTIRE NEW VEHICLE LIMITED WARRANTY SECTIONS SHALL BE INTERPRETED AND CONSTRUED IN ACCORDANCE WITH THE LAW OF VIRGINIA.

The performance of necessary repairs and adjustments is the exclusive remedy under the New Vehicle Limited Warranty and any implied warranties.

BUGATTI does not authorize any person or entity to create for it any other obligation or liability in connection with the Covered Vehicle.

BUGATTI reserves the right to change or improve the design of any Covered Vehicle or any other BUGATTI parts (collectively, “BUGATTI Products”) at any time, without assuming any obligation to modify any BUGATTI Products previously manufactured or sold.

How do the New Vehicle Limited Warranty Relate to State Law?

This warranty gives you specific legal rights. You may also have other rights that vary from state to state.

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11 ALPHABETICAL INDEX



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12 CONTACT



CONTACT

12.1 TECHNICAL RACING SUPPORT

If you have any further questions or if we can help you in any other way with your BUGATTI, please contact:

Bugatti Automobiles S.A.S.
1, Château Saint Jean
Dorlisheim
F-67120 Molsheim

www.bugatti.com
customer.service@bugatti.com

12.2 SPARE PARTS SALES

Please contact an Authorised BUGATTI Partner.
www.bugatti.com

