



OWNER'S MANUAL
U.S. AND CANADA VERSION MODEL YEAR 2011

GTO

General notes

This is a general outline of some of the topics that are explained in this manual.

This vehicle, which complies with the NHTSA / EPA certification standards, uses advanced technology and is capable of achieving high performance levels.

It is equipped with sophisticated active and passive safety systems (described below); these features and systems do not authorize the driver to take risks other than those involved in normal driving. Unless otherwise instructed specifically by **FERRARI** (see the chapter entitled "Safety"), the deactivation of any of the vehicle's safety systems is PROHIBITED.

While certain safety devices (e.g., the airbags) have been designed to help ensure that they provide optimal levels of protection, they may nonetheless be hazardous in the event of failure by the driver or passenger to observe the instructions given by **FERRARI**. All vehicle occupants must be attentive at all times and take particular care when transporting passengers who are more subject to injury, such as children, disabled and elderly persons.

For proper driving, the following conditions must ALWAYS be met:

- the driver must be in excellent condition
- road regulations must be strictly observed
- common rules of caution must always be observed in relation to the quality/performance of the vehicle, driving conditions and contingent situations.
- Driving takes place in a naturally dangerous context where a number of different risk factors interact. For this reason, it is important to drive bearing in mind that others, such as pedestrians, motorcyclists or motorists, can make mistakes. Keeping a safe distance helps you when reacting in emergency situations.
Distractions and underestimating danger are the cause of most accidents.
- Caution and discipline are the basis of proper driving. Correct and careful use of a vehicle derives from respect for one's own safety and that of others, as well as from compliance with road regulations.

FERRARI recommends reasonable and careful use of the vehicle. The driver MUST NEVER allow passengers to increase the risks associated with driving (e.g., by not using safety systems such as the seat belts) by failing to observe the mandatory safety rules that apply to both driver and passengers. All occupants must wear their safety belts at all times!

The vehicle **MUST NOT** be modified or tampered with for any reason whatsoever since, by so doing, the manufacturer's homologation and safety engineering will be modified.

The owner of the vehicle is obliged to perform careful maintenance on the vehicle in compliance with the recommended maintenance schedule.

The driver must pay particular attention to the signals of the vehicle, especially the warning lights on the dashboard and buzzers. Even when the warning lights do not indicate a situation of immediate danger, the driver must be cautious in relation to possible consequences of the failure and other information given.

Even during routine operations, such as refueling, precautions should always be taken and it is important to check that flammable liquid has not been spilled; these precautions must be observed even if the operation is performed by others. Similarly, before starting off make sure that the doors are closed by checking the warning lights and also manually. The driver must be fully knowledgeable with the vehicle and its controls in order to handle and drive it correctly. Knowledge of the vehicle can be achieved/improved by attending the driving courses held by **FERRARI** which are recommended.

The use of motor sports terms (such as F1, SPORT and RACE) is merely indicative of the competition-derived technology and suspension systems in the vehicle and does not endorse inappropriate behavior on the road which does not comply with traffic regulations.

The driver must also use any on-board information, communication and entertainment systems responsibly, especially when the vehicle is in motion. Examples of information, communication and entertainment systems are the following: satellite navigation systems, traffic information systems, media players (e.g., iPod), telephones with Bluetooth connectivity, etc. (whether audio-based or with display).

The driver must bear in mind that on-board systems may cause distraction while driving, since they may require the driver to turn his attention away from the road for several seconds.

Aftermarket video entertainment systems for the passenger (e.g., TV) must be installed only where they will not distract the driver while the vehicle is in motion.

These systems may only be operated by the driver:

- in complete safety (stopping the vehicle before use if necessary);
- putting road safety first; for example, in poor or limited visibility conditions, looking at a display with active programs can be distracting even if you take your eye off the road, even for a split second;
- while the vehicle is in motion, the attention required to use on-board systems must never exceed the high level of attention required to drive safely in accordance with the traffic regulations;
- if the previous vehicle owner had installed systems on the vehicle that are NOT APPROVED by **FERRARI** (e.g., car tuning), ensure that they are fully compatible with the original vehicle equipment;
- in some countries, the use of entertainment/information systems on vehicles is prohibited while driving;
- the driver is responsible for the use of these entertainment/information systems with video screens if they are prohibited in the country where the vehicle is driven;
- strict priority criteria must be observed when driving a vehicle: you must not therefore take your attention and eyes off the road. Operations not involved with driving (e.g., changing dashboard functions) must be performed in maximum safety when the vehicle is stationary.

THE NHTSA'S TOLL-FREE AUTO SAFETY HOTLINE

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying FERRARI S.P.A.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or FERRARI S.P.A.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153) (Media inquires: 202-366-9550);

go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE West Building, Washington, DC 20590.

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

THE TRANSPORT CANADA TOLL-FREE AUTO SAFETY HOTLINE

If the affected vehicle is not repaired free of charge to you and within a reasonable time, you may submit a written complaint to Head of Recalls, Road Safety and Motor Vehicle Regulation, Transport Canada, 2780 Sheffield Road, Ottawa, Ontario K1B 3V9. You may also telephone Transport Canada at (613) 993-9851.

FUELS CONTAINING ALCOHOL

For its fuel injection systems, FERRARI uses components and materials of very high quality. However, no specific tests have been carried out to assure the reliability of the system when using fuel containing alcohol. Consequently, we recommend that you do not use fuel containing alcohol on FERRARI vehicles.

⚠ Due to the high power generated by the engine, we recommend that the vehicle is used by experienced drivers only.

Introduction

The aim of this Owner's Manual is to inform you in the proper use of your vehicle, to help you get the best value from your vehicle and to provide information on routine maintenance: we advise you to read it carefully before driving. The Owner's Manual should be considered an integral part of the vehicle and must therefore always be kept on board.

Using the vehicle in a way that does NOT comply with the Owner's Manual not only exonerates **FERRARI** of any responsibility but also puts the operator and passenger at great risk.

Updating

The high quality level of the vehicle is subject to constant technological improvements. Therefore, there may be differences between this manual and your vehicle.

Your **AUTHORIZED FERRARI DEALER** will be pleased to provide you with all the information on any important updates.

All specifications and illustrations contained in this manual refer to those resulting as of the printing date. Specifications may be changed without prior notice.

Spare parts

When replacing parts or topping up with lubricants and fluids, we strongly urge that you use original spare parts and the lubricants and fluids recommended by **FERRARI**.

The **FERRARI** warranty is voided if **GENUINE FERRARI** spare parts are NOT used for repairs.

Warranty Book

Each new vehicle comes equipped with a "Warranty Book".

This contains the vehicle's warranty terms and conditions.

The Warranty Book also contains the routine maintenance indicated in the "Maintenance Schedule".

Service

The information in this manual is necessary for the proper use and care of the vehicle. In addition, customers will get maximum satisfaction and results from the vehicle if they carefully follow the instructions contained in it.

We recommend that you have all the checks and services performed at an **AUTHORIZED FERRARI DEALER** since they have highly skilled staff and the necessary equipment.

Please refer to the "Sales and Service Organization" manual for information on the location of the **AUTHORIZED FERRARI DEALERS**.

The **FERRARI TECHNICAL SERVICE DEPARTMENT** is at your complete disposal for any information and advice.

Consulting the manual

To facilitate reading the manual, the topics have been divided into sections and chapters.

To further facilitate consultation, each section is identified by a specific color:

1. General

Provides general information about your vehicle.

2. Safety

Describes the main safety systems in the vehicle.

3. About your Vehicle

Provides necessary information for use of the vehicle.

4. Advice for Emergency Situations

Provides useful advice for solving certain problems that may occur.

5. Care of the Vehicle

Provides advice for cleaning, care and routine maintenance of your vehicle.

6. Glossary

Explains the main technical concepts.

7. Index

Allows you to quickly identify and locate the information required.

Within the various sections, special attention must be paid to the parts marked as follows:



Extreme caution required: failure to comply with the instructions could constitute a serious risk to personal safety and vehicle protection!

Important note:
a note containing instructions or information.



Warning for environmental protection: useful advice for protection of the environment.

Abbreviations/Acronyms

Some descriptions and terms with particular meanings are found in this manual in an abbreviated form:

A.C.

Air Conditioning

ABS

Anti-lock braking system

ASR

Anti-skid regulation during acceleration

ECU

Electronic Control Unit

F1

Formula 1

Electronically-controlled gearbox, designed with the same technology as used in the racing sector

F1-Trac

Traction control derived from the technologies used in the racing sector

PS

Performance Start

For an overview of the abbreviations contained in this manual, please see the **Glossary**.

F1-SuperFast 2 gearbox

The vehicle is equipped with an electronically-controlled gearbox system which uses steering wheel-mounted paddles.

The default setting for the F1 gearbox is always “Auto easy exit” mode.

Every time the vehicle is started, the F1 gearbox is in “Auto easy exit” mode unless the vehicle was in “Auto” mode when the engine was turned off.

To exit the “Auto easy exit” mode use one of the two **UP** and **DOWN** paddles (while the vehicle is moving) or press the **AUTO** button on the center console.

Even though the system can be used in “Auto” mode, it should not be considered an automatic gearbox. Hence, for proper use always follow the instructions given in this manual.

This new F1 gearbox generation reduces overall gearshifting times. Using the elastic power of the transmission devices and the integrated electronic management of engine and gearbox, the **F1-SuperFast 2** system enhances vehicle performance.

The different gearshifting stages (torque reduction and clutch disengagement, gear disengagement and engagement and subsequent clutch re-engagement) are actuated in sequence.

This results in extremely fast gearshifting, which drops down to approximately 60 ms (measured as “acceleration gap”).

Environmental protection



The following chapter contains useful advice for environmental protection.

FERRARI has designed and constructed a vehicle using technologies, materials and devices capable of reducing the harmful impact on the environment to a minimum.

If you use your vehicle with respect for the environment, you too will help contribute towards environmental protection.

Fuel consumption as well as engine, gearbox, brakes and tires wear mainly depend on two factors:

- use of the vehicle
- driving style

Both factors are influenced by the driver.

Use of the vehicle

- Avoid using the vehicle for short trips.
- Check that the tire pressure is correct.
- Proper periodic maintenance will contribute to preserving your vehicle in full working order and will help protect the environment.

We therefore advise you to respect the service due dates indicated in the “Maintenance Schedule”.

Driving style

- Do not accelerate during the starting procedure.
- Do not warm up the engine when the vehicle is stationary.
- Drive carefully and keep a proper distance suited to the driving speed.
- Avoid sharp and frequent accelerations.
- Turn off the engine if the vehicle is kept stationary for long periods of time.
- Shift gears using only 2/3 of the speed permitted for each gear.

 The vehicle is equipped with exhaust gas control and monitoring systems which must always function properly and be checked regularly.



Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California (CA) to cause cancer and birth defects and reproductive harm.

In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California (CA) to cause cancer and birth defects or other reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds. Wash your hands after handling.

Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing thoroughly with soap and water.

Vehicle event data

The driving and safety systems employed in your vehicle use computers that monitor, and share with each other, information about your vehicle operation. One or more of these computers may store certain monitored information, either during normal vehicle operation or in a crash or near-crash event. Stored information may be read and used by:

- Ferrari North America, Inc.
- Ferrari S.p.A.
- Service and repair facilities
- Law enforcement or government agencies
- Others who may assert a legal right to know, or who obtain your consent to know such information.

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Glossary

7. Index



Vehicle keys

Alarm system

Identification plates and labels

Dimensions and weights

Main engine specifications

Transmission ratios

Performance

Fuel Consumption

Wheel rims and tires

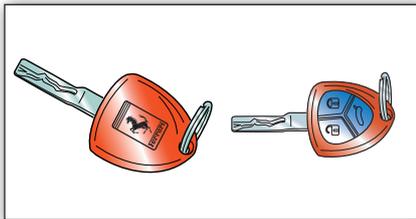
Electrical system

Recommended
lubricants and fluids

Vehicle keys

The vehicle is delivered with two identical keys that can be used for:

- central door locking/unlocking
- starting the vehicle
- activating/deactivating the alarm system
- opening the luggage compartment.



If the keys are lost or stolen, you can request a duplicate from your **AUTHORIZED FERRARI DEALER** (see section “Duplicating the keys” on page 15).

Make sure you record the code numbers in the space provided in the “**WARRANTY BOOK**”

Key codes

A **CODE CARD** is supplied with the keys. This card shows the following:

- the electronic code to be used for “emergency starting”
- the mechanical code for the keys, to be given to your **AUTHORIZED FERRARI DEALER** if you request duplicates of the keys.

⚠ The code numbers on the **CODE CARD** must always be kept in a safe and protected place, not accessible to others.

⚠ We remind you that the emergency start procedure can only be performed using the electronic code found on the **CODE CARD**.

In the event of a change of ownership, it is essential that the new vehicle owner is provided with all the keys and with the **CODE CARD**.

Alarm system

The FERRARI CODE system

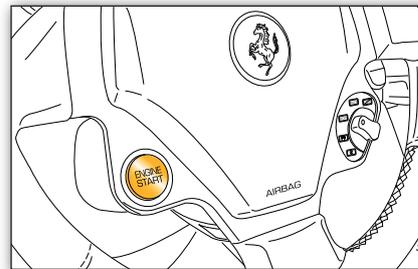
The vehicle is equipped with an electronic immobilizer system (**FERRARI CODE**) which is automatically activated when the ignition key is removed.

The keys are equipped with an electronic device which transmits a coded signal to the **FERRARI CODE ECU**. Once this ECU has recognized the signal, the engine can be started.

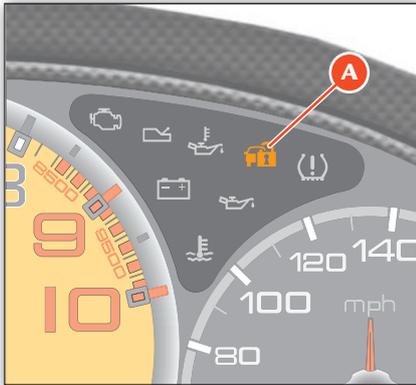
Operation

Each time the ignition key is removed from the **0** position, the protection system activates the engine immobilizer.

- When starting the engine, press the **ENGINE START** button on the steering wheel:



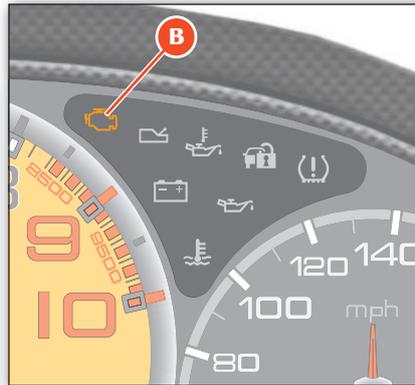
- 1) If the code is recognized, the **CODE** warning light **A** on the instrument panel turns off when the check procedure has been completed, whereas the **OBD** warning light **B** turns off when the engine is started once the ECU has completed its diagnostic cycle. In these conditions, the protection system has recognized the key code and deactivates the immobilizer.



- 2) If the **CODE** warning light **A** illuminates permanently, it means that the code has not been recognized. If this occurs, it is advisable to turn the key back to position **0** and then back to

- II. If the immobilizer device remains active, try with the other key.

If you still cannot restart the engine, contact your **AUTHORIZED FERRARI DEALER**.



- While driving, with the ignition key in position **II**:

- 1) If the **CODE A** warning light illuminates, it means that the system is performing a self-diagnostic cycle. At the first opportunity, you can stop and test the system: stop the engine by turning the ignition key to position **0**, then

turn the key back to position **II**. The **CODE** warning light **A** will illuminate and should go off within one second. If the warning light stays on, repeat the procedure described previously leaving the key at **0** for more than 30 seconds.

If the problem persists, please contact your **AUTHORIZED FERRARI DEALER**.

- 2) If the **CODE** warning light **A** flashes, it means that the vehicle is not protected by the immobilizer.

Each key supplied has its own specific code which must be stored in the memory of the system control unit.

Contact your **AUTHORIZED FERRARI DEALER** immediately to have all the keys stored in the system memory.

Duplicating the keys

If you request additional keys, provided that the conditions to satisfy your request are met, remember that the codes must be stored (up to a maximum of 7 keys) on all the keys.

Contact your **AUTHORIZED FERRARI DEALER** directly and bring the following with you:

- all the keys in your possession
- the **CODE CARD** for the **FERRARI CODE** system
- a personal identity document
- the documents proving ownership of the vehicle

The codes of the keys that are not available when the new memorization procedure is performed will be deleted from the memory, in order to prevent that any lost or stolen keys are used to start the vehicle.

Emergency starting

If the **FERRARI CODE** is unable to deactivate the immobilizer:

- the **CODE** warning light remains permanently on
- the **OBD** warning light goes off after four seconds and comes back on immediately afterwards
- the engine does not start.

In this condition, the engine can only be started with the emergency procedure.

We recommend you read the whole procedure carefully before performing it.

If you make a mistake during the emergency procedure, turn the key to position **0** and repeat the operation from point 1.

- 1) Read the 5-digit electronic code found on the **CODE CARD**.
- 2) Turn the key to position **II**: at this point, the **CODE** and **OBD** warning lights are on.
- 3) Fully depress and hold the accelerator pedal. Approximately 8 seconds later, the **OBD** warning light will go off. Release the accelerator pedal and get ready to count the number of times the **OBD** warning light flashes.
- 4) As soon as the number of flashes is equal to the first digit of your **CODE CARD**, depress the accelerator pedal and hold it until the **OBD** warning light goes off (after approximately 4 seconds), then release the accelerator pedal.
- 5) The **OBD** warning light starts flashing again. As soon as the number of flashes is equal to the second digit of your **CODE CARD**, depress the accelerator pedal and hold it down.

- 6) Follow the same procedure for the remaining digits in the code on the **CODE CARD**.

- 7) When the last digit has been entered, hold the accelerator pedal down. The **OBD** warning light comes on for 4 seconds and then goes off. You can now release the accelerator pedal.

- 8) A quick flashing of the **OBD** warning light (about 4 seconds) confirms that the operation has been successful.

- 9) Start the engine.

If the **OBD** warning light remains on, turn the key to **0** and repeat the procedure from step 1.

This procedure can be repeated an unlimited number of times.

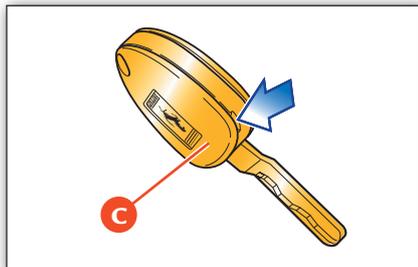
After an emergency starting procedure, it is advisable to contact your **AUTHORIZED FERRARI DEALER** to resolve any problem. Otherwise, you will have to perform the emergency starting procedure every time the engine is started.

Replacing remote control batteries

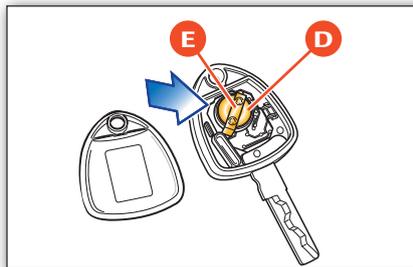
If you press one of the three buttons of the key and this does not activate the corresponding function, check for correct operation of the alarm system functions using the other remote control before replacing the batteries.

Replace the remote control batteries as follows:

- open the key cover **C** with a small screwdriver at the position indicated by the arrow



- remove the two batteries **D** by pushing in the direction indicated by the arrow to release them from the retainer cover **E**
- fit two new batteries of the same type, observing the indicated polarity
- close the key cover **C**.



Do not use sharp tools to remove the cover and be careful to avoid damaging the remote control.

⚠ There is risk of explosion if the battery is replaced with an incorrect type.
Dispose of used batteries in the proper manner.

Electronic alarm

The electronic alarm system performs the following functions:

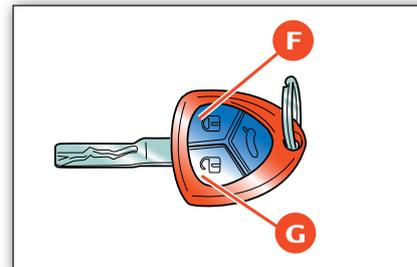
- remote control for central door locking/unlocking
- perimeter surveillance, detecting if doors and lids are open
- motion surveillance, detecting intrusion in the passenger compartment
- vehicle movement surveillance.

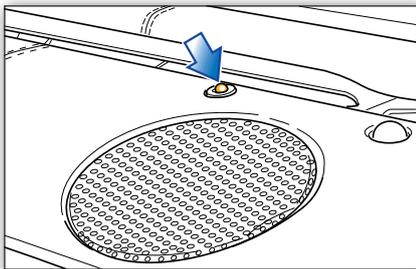
Activation

To turn on the electronic alarm, press button **F** on the key:

- the direction indicators flash once
- the system "beeps"
- the red LED on the dashboard flashes
- the central door locking system is activated and the doors are locked.

The system activates after approximately 25 seconds.





If the direction indicators and the red LED on the dashboard flash 9 times when the alarm system is activated with doors, rear and front lids properly closed, it means that the self-diagnostic feature has detected a malfunction in the system. Contact your **AUTHORIZED FERRARI DEALER** to have the system checked.

If the remote control battery is dead, to enter the vehicle, insert the key into one of the two door locks and turn it to release the lock. The alarm siren will start to sound.

Start the vehicle following the standard procedures. The alarm siren will deactivate.

When the electronic alarm is activated, the user may request opening of the luggage compartment; in this case, the motion and anti-lift sensors are temporarily deactivated. If the luggage compartment is then closed, the sensors will be reactivated.

If the direction indicators and the red LED on the dashboard flash 9 times when you activate the alarm system, it means that one of the doors or the front/rear lid is not properly closed and therefore is not protected by the perimeter surveillance. Check for correct closing of the doors, front/rear lid and close any open door or lid without deactivating the alarm system. The direction indicators flashing once to indicate that now the door or the front/rear lid is closed properly and is protected by the perimeter surveillance.

Deactivation

To deactivate the alarm system press button **G** on the key:

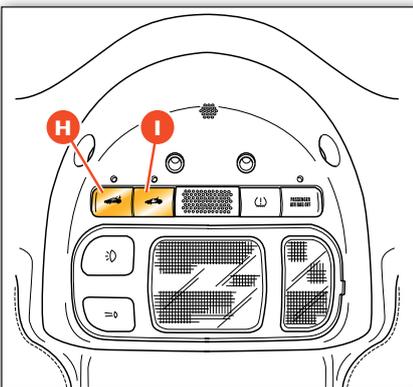
- the direction indicators flash twice
- the system beeps twice
- the red LED on the dashboard turns off
- the dome lights and the lights under the doors illuminate
- the central door locking system is deactivated and the doors are unlocked.

Pressing button **G** twice unlocks the doors and also turns on the low beams for 30 seconds.

The alarm system is off and it is therefore possible to get into the vehicle and start the engine.

Deactivating the motion sensing system

The motion sensing system can be deactivated by pressing button **H** on the roof panel. When this function is deactivated, the LED on the button will flash for about 3 seconds and will then turn off.



Deactivating the anti-lift alarm

Press button **I** to deactivate the anti-lift alarm system. When this function is deactivated, the LED on the button will flash for about 3 seconds and will then turn off.

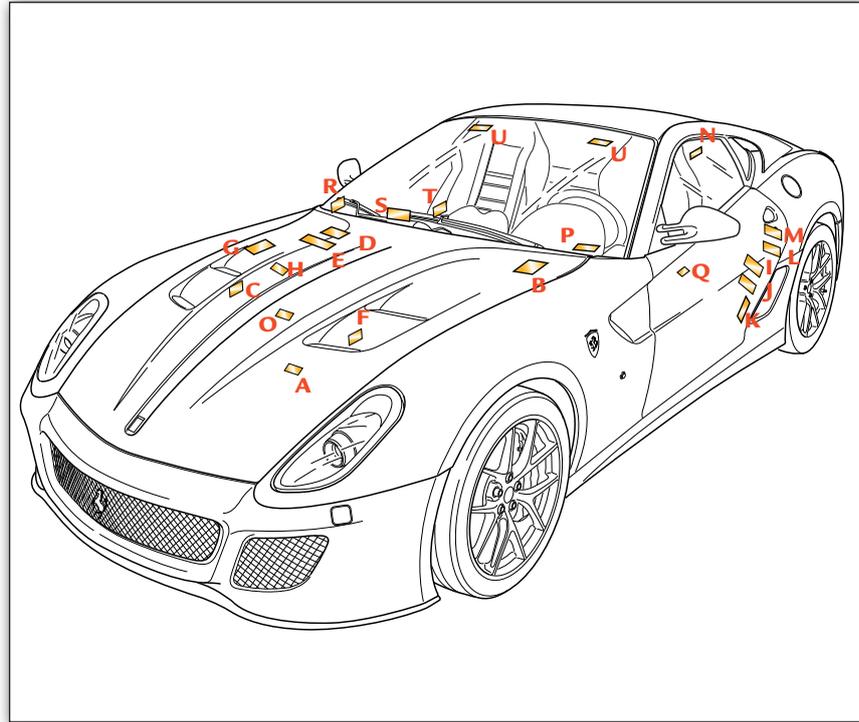
Alarm memory

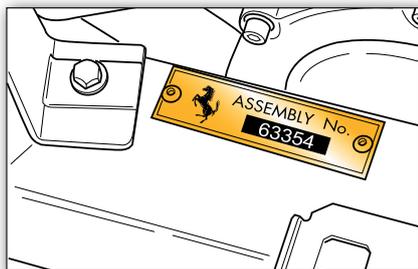
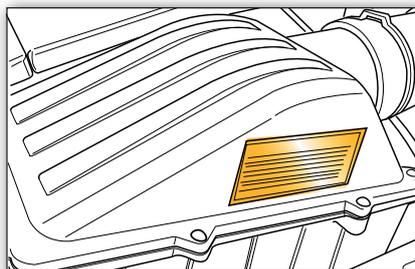
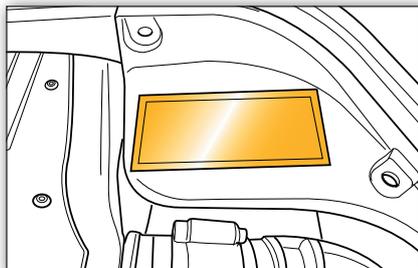
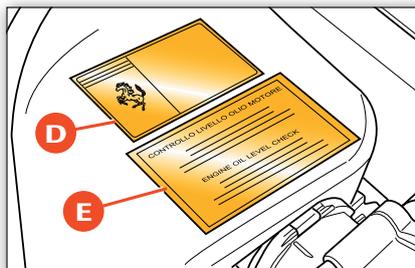
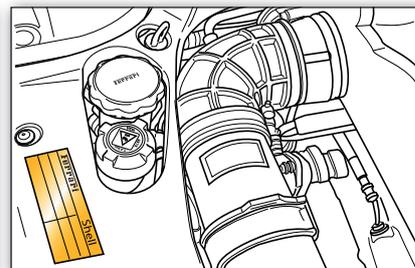
If the **CODE** symbol (see page 92) appears on the TFT display for 10 seconds when the vehicle is started after system diagnosis, together with the message “Break-in attempted”, this means that an intrusion has been attempted.

The alarm system memory is reset by turning the ignition key.

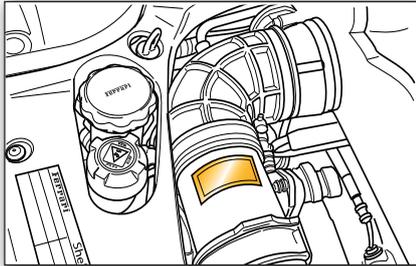
Identification plates and labels

- A** Assembly number plate
- B** Emission control data label
- C** Airbag label
- D** Original paintwork label
- E** Oil level check label
- F** High voltage label
- G** Engine oil type label
- H** Radiator with anti-freeze label
- I** Tire pressure and type label
- J** TPMS warning label
- K** V.I.N. label
- L** Conformity label
- M** Mercury content warning label
- N** Battery master switch instruction label
- O** Engine type and number
- P** V.I.N.
- Q** Gearbox type and number
- R** Airbag maintenance label
- S** Child seat warning label
- T** Weight sensor label
- U** Airbag warning label (2)

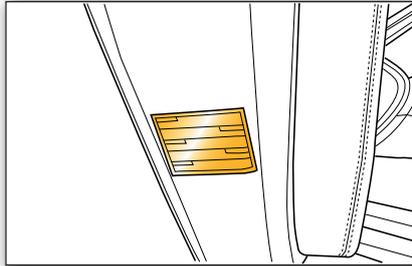


A Assembly number**C** Airbag label**F** High voltage label**B** Emission control data label**D** Original paintwork**E** Oil level check label**G** Engine oil type label

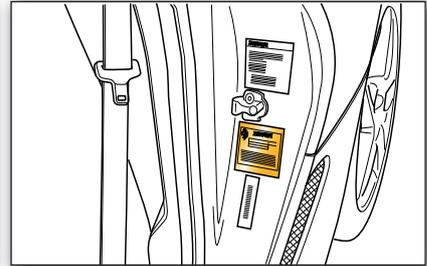
H Radiator with anti-freeze label



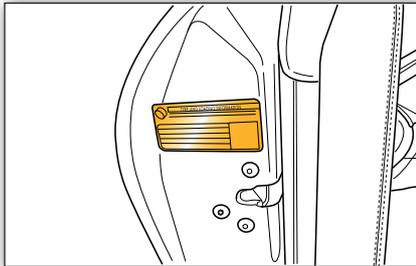
J TPMS warning label



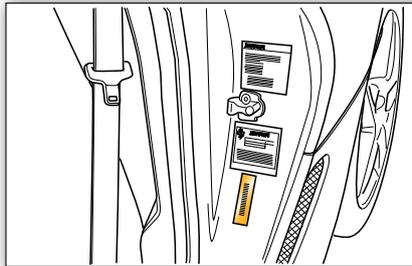
L Conformity label



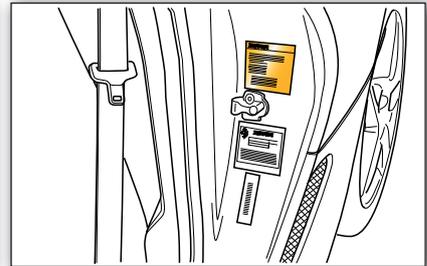
I Tire pressure and type label



K V.I.N. label

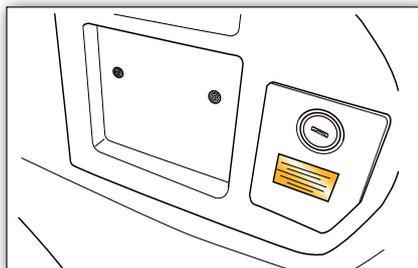


M Mercury content warning label

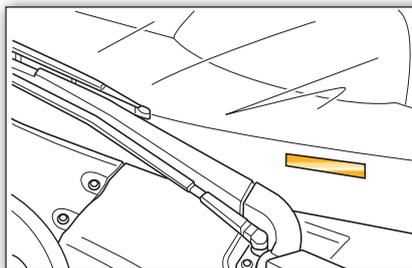


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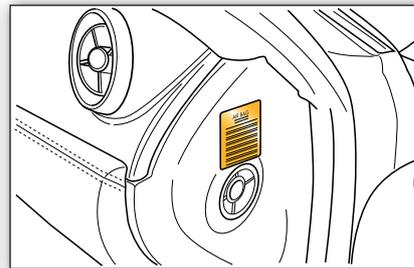
N Battery master switch instruction label



P V.I.N.



R Airbag maintenance label

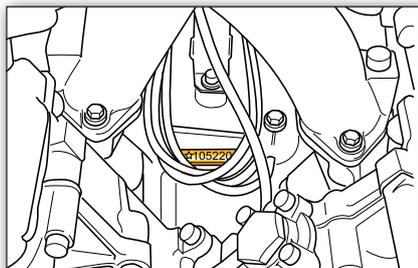


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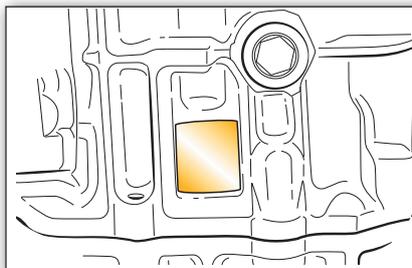
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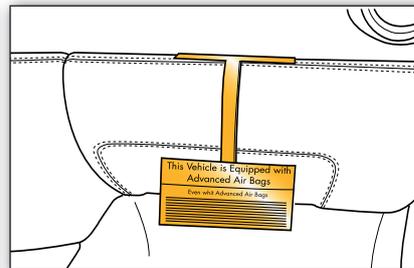
O Engine type and number



Q Gearbox type and number



S Child seat warning label

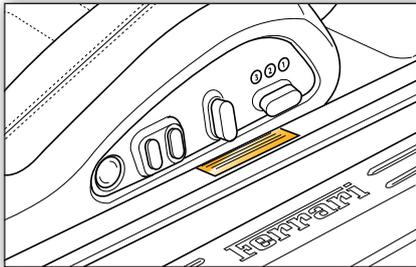


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T Weight sensor label



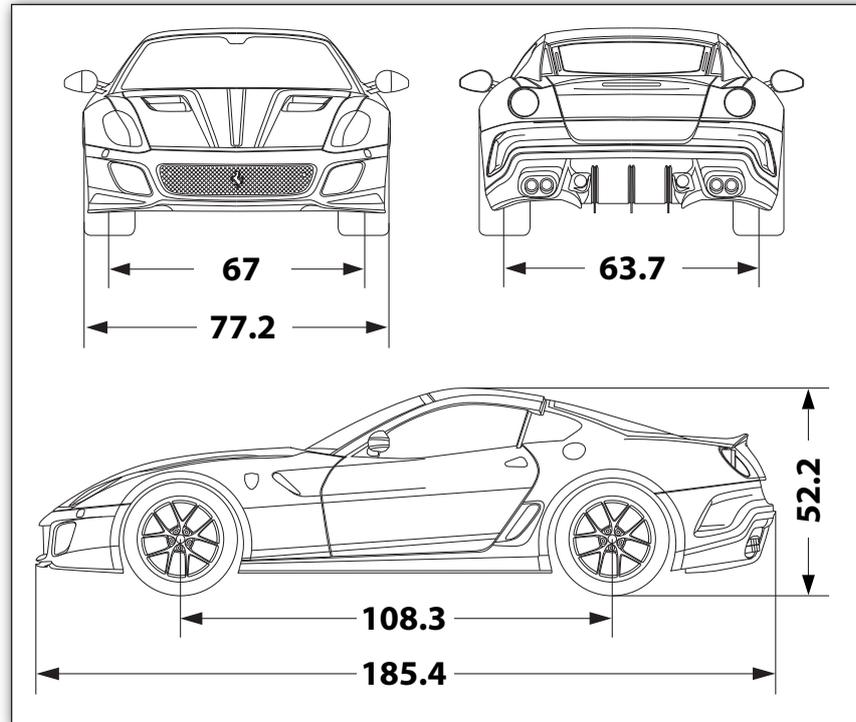
U Airbag warning label



Dimensions and weights

Wheelbase	108.3 in. (2750 mm)
Max. length	185.4 in. (4710 mm)
Max. width	77.2 in. (1962 mm)
Max. height	52.2 in. (1326 mm)
Front track	67 in. (1701 mm)
Rear track	63.7 in. (1618 mm)
Curb weight	3582.5 lb (1625 kg) *

* with the vehicle fitted with the most popular options available



Main engine specifications

Engine family	BFEXV05.7LEV
Type	F140CE
Number of cylinders	12
Cylinder bore	3.6 in. (92 mm)
Piston stroke	2.96 in. (75.2 mm)
Total displacement	5999 cm ³
Compression ratio	11.89:1
Maximum RPM	8250 RPM
RPM limiter	8400 RPM
Max. power	489 kW (656 HP)
Corresponding RPM	8250 RPM
Max. torque	457.28 ft. lb. (620 Nm)
Corresponding RPM	6500 RPM

Transmission ratios

Gear ratios	Differential bevel gear pair ratio
1 41/13 = 3.15	
2 37/17 = 2.18	
3 36/23 = 1.57	4.44
4 32/27 = 1.19	(9/40)
5 29/31 = 0.94	
6 25/33 = 0.76	
R 41/14 = 2.93	

Performance

0 - 100 km/h (0 - 62 mph)	0 - 200 km/h (0 - 124 mph)	Max. speed
3.35 s	9.8 s	> 208 mph (> 335 km/h)

Fuel Consumption (miles per US Gallon)

City	11
Highway	15
Average fuel consumption	12

These estimates are based on tests performed on vehicles equipped with the most popular optional equipment.

The fuel economy values are calculated pursuant to the new EPA fuel economy labeling procedure for 2008 and later model years. You can also obtain other information from <http://www.fueleconomy.gov>.

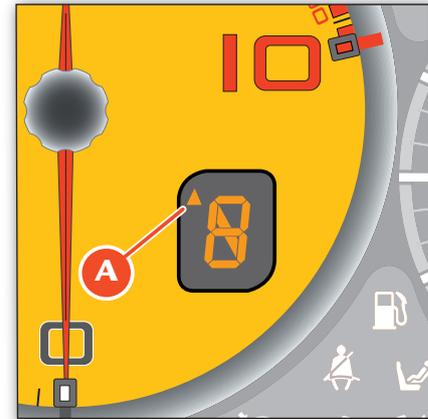
Reminder: Your actual fuel consumption may vary depending on many factors such as your driving style and habits, vehicle maintenance, optional equipment installed, road and weather conditions.

For best fuel economy, shift gears at the following speeds:

1 st	-	2 nd	10 mph (16 km/h)
2 nd	-	3 rd	15 mph (24 km/h)
3 rd	-	4 th	20 mph (32 km/h)
4 th	-	5 th	25 mph (40 km/h)
5 th	-	6 th	30 mph (48 km/h)

Shift Indicator Light (SIL) operating mode

When the gearbox is used in "manual" mode (see page 107), the graphic symbol **A** appears just before reaching the speed recommended for operating the UP lever. After shifting gears or after exceeding the indicated speed, the indicator turns off even if no gearshift is performed.



Electrical system

<i>Supply voltage</i>	<i>Alternator</i>
12 V	Nippondenso 150 A
<i>Battery</i>	<i>Starter motor</i>
Fiamm 12V, 74 AH, 440 A	Nippondenso

Wheel rims and tires

<i>Wheel rims</i>		
Front	Rear	Spare wheel
9.5" J x 20"	11.5" J x 20"	4.5" J x 20"
9.5" J x 20"	11.5" J x 20"	4.5" J x 20"

Always check your tires regularly for wear and damage.

FERRARI-approved tires	<i>Inflation pressure (cold)</i>					
	Front	Rear	Spare wheel	Front	Rear	Spare tire
Michelin Pilot Super Sport	285/30 ZR20	315/35 ZR20	145/60 ZR20	35 psi (2.4 bar)	32 psi (2.2 bar)	60.92 psi (4.2 bar)

Winter tires	<i>Inflation pressure (cold)</i>			
	Front	Rear	Front	Rear
Pirelli Winter 240 Sottozero *	255/35 ZR20	305/35 ZR20	35 psi (2.4 bar)	32 psi (2.2 bar)

(*) rear tires which can be fitted with chains



Wheel Replacement

We recommend you read the entire procedure carefully before performing it. For more information see page 164.

Wheel bolt pre-tightening	25.8 - 29.5 ft. lbs. (35-40 Nm)
Wheel bolt final tightening	73.8 ft. lbs. (100 Nm)

Uniform tire quality grading

All passenger car tires must conform to Federal Safety requirements in addition to these grades.

DOT quality grades

Tires type	Michelin Pilot Super Sport
Tread wear	300 (front) 300 (rear)
Traction	AA
Temperature	A

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a prescribed government test course.

For example, a tire graded 150 would wear one and one-half (1-1/2) times as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, and may differ significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Check your tires regularly for wear.

Traction

The traction grades, from highest to lowest, are “AA”, “A”, “B”, and “C”.

These grades represent the tire’s ability to stop on wet pavement under controlled conditions on specified government test surfaces of asphalt and concrete. Tires marked “C” have poor traction performance.



The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature

The temperature grades are “A” (the highest), “B”, and “C”.

Temperature grades represent the tire’s resistance to the generation of heat and its ability to dissipate heat under controlled indoor test wheel conditions. Sustained high temperature can cause the tire to deteriorate and can reduce tire life. In addition, excessive temperature can lead to sudden tire failure. Grade “C” corresponds to a level of performance which all tires installed on passenger vehicles must meet under the Federal Motor Safety Standard No. 109. Grades “B” and “A” represent higher levels of performance on the laboratory test wheel than the minimum required by law.



The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Recommended lubricants and fluids

<i>Parts to be refilled</i>	<i>Quantity</i>	<i>Fill with:</i>	<i>Ref. Page</i>	
Engine	Total system capacity	14.26 qts. (13.5 l)	 PENNZOIL ULTRA™ RACING 10W-60	177
	Oil level between Min. and Max.	1.58 qts. (1.5 l)		
	Oil consumption	0.52-1.06 qts./600 miles (0.5 - 1 l/1,000 km)		
Gearbox and differential	4.97 qts. (4.7 l)	 SHELL TF 1055	178	
F1 gearbox system	1.06 qts. (1 l)	 SHELL DONAX TX	178	
Braking system	1.58 qts. (1.5 l)	 SHELL DONAX UB BRAKE FLUID DOT4 <i>Ultra</i>	179	
Cooling system	20.07 qts. (19 l)	 GLYCOSHELL LONGLIFE CONCENTRATE at 50%	178	
Hydraulic power steering system	1.06 qts. (1 l)	 SHELL DONAX TX	179	
Fuel tank		Unleaded fuel 95 RON	71	
	Reserve	5.28 US Gallon (20 l)		
Air conditioning and heating system			-	
	Refrigerant	1.66 ± 0.11 lbs. (750 ± 50 g)	DELPHI RL 488 “R 134 A”	
Windshield washer/headlight washer fluid tank	6.86 qts. (6.5 l)	Windshield washer fluid	180	

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Glossary

7. Index



Seat belts

Pretensioners

Child safety

Airbag

Side airbags

ABS

CST

F1-Trac

Tire pressure and
temperature monitoring system

FERRARI has designed and built a high performance vehicle.

Please note that it is essential to comply with all state, local and provincial regulations.

Special warnings

This vehicle has been designed to comply with homologation, Federal Motor Vehicle Safety Standards and environmental regulations.

The careful and cautious behavior of the driver is also of utmost importance.

Particular attention must be paid to:

- Overheated components. High temperatures develop in the engine compartment near the exhaust system. Do not park the vehicle on, over or near paper, grass, dry leaves or other flammable materials. They could catch fire if they come into contact with hot parts of the exhaust system. Do not fit other heat shields or remove those fitted on the exhaust system. Do not let flammable substances come into contact with the exhaust system.

- Moving parts of the vehicle such as belts, fans, etc. must always be adequately protected. Do not remove the guards or operate on the moving parts without taking necessary precautions.
- Installations under pressure such as braking system, air conditioning system, cooling system and lubrication system may create pressures inside them. Do not perform any operation which may cause gas or liquids to escape with the risk of injury to persons and damage to property.

Emissions

-  • The exhaust gas generated by the running engine may be hazardous, especially when in closed spaces. In addition to consuming oxygen, the engine discharges carbon dioxide, carbon oxide and other toxic gases.
- Fuel is highly flammable and emits vapors which may be noxious if inhaled.
Do not use open flames or create sparks near the open fuel tank or in any other condition where fuel comes into contact with air.

Lubricants

-  • The oils used may also be flammable: take the same precautions as those adopted for fuel.

Flammable fluids

-  • The fluid in the battery is poisonous and corrosive. Do not let it spill and come into contact with the skin, eyes or objects. Do not use open flames or create sparks near the battery.

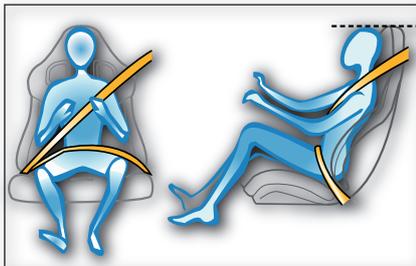
Seat belts

Statistics show that when used correctly, seat belts help reduce the risk of injury in various types of crashes including the risk of ejection from the vehicle and occupants' impact with the interior of the vehicle.

If not fastened, the seat belts do not provide any type of protection. Before every trip, always make sure that all occupants are wearing their seat belts.

⚠ Seat belts must be worn at all times and must be properly fastened and adjusted!

Correct use of the seat belts can help reduce the risk of serious injury in the event of an accident.



⚠ For an effective restraining action, the seat belt must be fastened correctly with the seat backrest in the upright position.

The seat belt is fastened correctly when the upper part of the belt crosses the center of the shoulder (not the neck) and the abdominal section is fitted over the hips (not the abdomen).

Make sure it is not twisted and that it passes closely over your body; if not, in the event of a collision, it may move and cause injury to the abdomen.

Avoid wearing bulky clothing that may interfere with the proper operation of the seat belts.

The vehicle seat belts are automatic, with three fastening points, an emergency inertia locking device on the winding unit, and are equipped with a pretensioner.

⚠ Do not let the seat belts come into contact with sharp objects. They may be damaged and consequently tear in the event of a collision.

⚠ Each seat belt has been designed to protect only one occupant. If more than one person uses the same seat belt, the risk of injury in the event of an accident is increased.

The seat belt must never be passed around a baby, child or other person sitting on a passenger's lap.

Do not sit babies, small children or other persons on your lap.

If there is a collision, the weight of an adult may cause the child to be crushed by the seat belt causing severe or even fatal injuries.

⚠ Do not attach or pin anything onto the seat belts: they may be damaged and consequently break in the event of a collision.

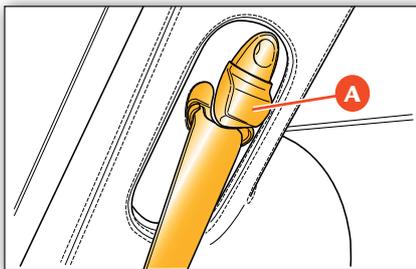
⚠ If a seat belt has come into contact with sharp objects or was somehow perforated or torn, we recommend you have it immediately replaced by an AUTHORIZED FERRARI DEALER.

⚠ Periodically check the condition of the seat belts. If the belt shows signs of wear, it must be checked by a qualified person and replaced if necessary. Contact your AUTHORIZED FERRARI DEALER immediately.

Seat belt height adjustment

Press button **A** to release the height adjustment mechanism and then move it into the desired position.

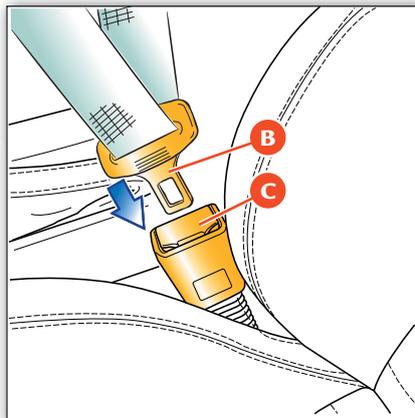
Always ensure that the mechanism has locked correctly. The seat belt should be adjusted so that the diagonal section passes approximately halfway between the shoulder and the neck. The lap section of the belt must pass over the hips, not the abdomen.



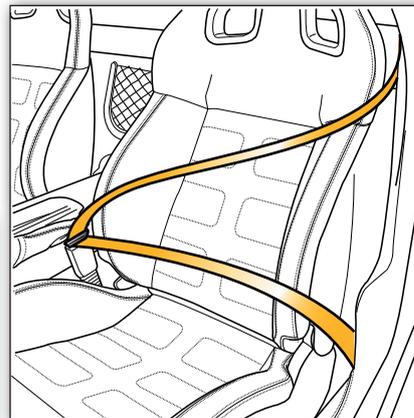
Fastening the seat belts

Once you have adjusted the seat correctly (see page 128):

- Grip the latch plate **B**, slowly pull the belt and insert the latch plate into the buckle **C** (if the belt locks when you are pulling it out, let it wind back a little and pull it out again without jerking it).



- Make sure that it has clicked into the locked position: hold the belt and pull it to check that the latch plate has been inserted correctly.
- Position the seat belt correctly.



⚠ Do not allow children to be held on a passenger's lap using only one seat belt for both of them.

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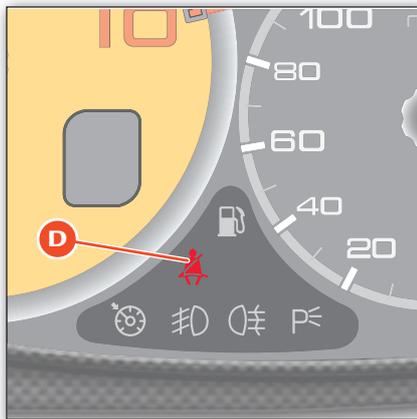
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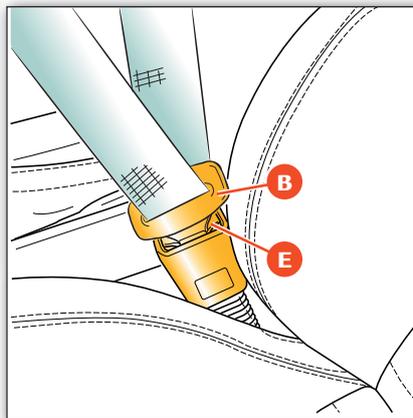
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If the driver's seat belt is not fastened, the warning light **D** comes on when the ignition key is turned to **II**.

Unfastening the seat belts

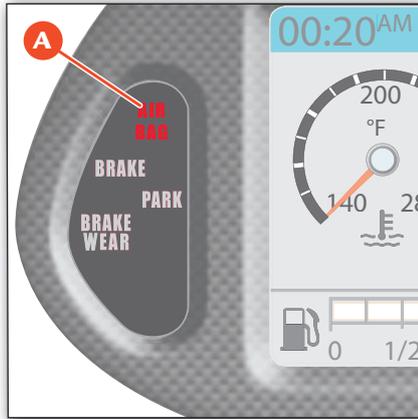
- Push the release button **E**.
- Guide the latch plate **B** back to its rest position.



Pretensioners

The seat belts are fitted with pyrotechnic-powered pretensioners. The pretensioner is designed to be activated by the airbag ECU in the event of certain head-on collision of sufficient severity. The belt will rewind a small amount just before the restraining action begins, thereby improving the fitting across the occupant's body.

Activation of a pretensioner is indicated by the illumination of the warning light **A** on the instrument panel.



⚠️ Pretensioners that have been activated will no longer function and must not be repaired under any circumstances. Contact your AUTHORIZED FERRARI DEALER for replacement.

When a pretensioner is activated, a small amount of smoke is released. This smoke is not harmful and does not indicate the presence of fire.

⚠️ Activation of the pretensioners only depends on the status of the seat belts and is not affected by the occupants' presence. Always wear your seat belt!
If the seat belt is not fastened, the pretensioner will not activate, even if the seat is occupied.

The seat belts are fitted with a load limiting device. The load limiting device is located in the belt retractor and allows controlled release of the belt during a collision thereby limiting the impact that the belt has on the occupant's body.

Care of seat belts and pretensioners

- Following a serious collision, replace the seat belts that were worn at the time even if they do not appear to be damaged.

- Periodically check that the anchor points are tight and that the seat belt is in perfect condition and slides smoothly.
- The seat belt must be kept clean; the presence of any dirt could prevent the seat belt retractor from working properly.
- To clean the seat belt, wash it by hand with mild soap and water and let it dry. Do not use strong detergents, bleach or aggressive solvents, as they can weaken the fibers.
- Make sure the retractors do not get wet: proper functioning is only ensured if they are kept dry.
- If immersed in water or mud, it must be replaced.
- The pretensioners require no maintenance or lubrication.
- Pretensioners must be replaced at the intervals indicated in the "Warranty Book".

All work on any part of this safety system must only be performed by an AUTHORIZED FERRARI DEALER.

- ⚠ Removing or making modifications of any kind to the seat belts, belt retractors and pretensioners is not allowed.

Maintenance work involving strong impacts, vibrations or heating of the pretensioner area may activate them; vibrations caused by bumpy roads will not have this effect.

Child safety

- ⚠ Never drive with a child in a child restraint in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light on the roof panel is not illuminated. Airbag deployment can cause serious injuries or death to a child.

- ⚠ Established legislation in some countries already provides that children under 12 years of age may not travel in the front passenger seat.

Because of their size, children are at greater risk than adults. Suitable restraint or safety systems must be used.

All minors whose physical characteristics (i.e., age, height, weight) fall within the legal limits in force in each country/state/province must be protected by approved restraint or safety systems (e.g., child seats).

You are advised to always use approved child restraint systems bearing the proper markings.

- ⚠ Never leave children ALONE and/or unattended in the vehicle since this may constitute a danger to them and others.
- ⚠ This is a high-performance sports vehicle. Do not use the vehicle to transport infants, since sudden acceleration may cause injury.

- ⚠ Drive slowly and pay maximum care and attention when transporting children. Sudden acceleration caused by sports-style driving may be dangerous for children even if no collision occurs.

- ⚠ Do not transport children in rearward facing child restraint systems on the front passenger seat.

Although the front passenger airbag has been designed and developed not to cause injury, it should be stressed that the muscle and bone structure of children is not fully developed and therefore vulnerable; the risk of very severe or even fatal injury caused by activation of the airbag cannot therefore be excluded.

- ⚠ If you **absolutely** must carry a child on the front passenger seat in a rearward facing child restraint system (e.g., in an emergency situation), the front passenger seat must be positioned as far back as possible with the sides of the seat as far open as possible and the lumbar support adjustment as low as possible. The seat must also be adjusted to the lowest position to enable the child restraint system to be correctly installed.

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Do not tamper with the seat belts or child restraint systems.

Because of their size and shape, children are at greater risk than adults. Suitable restraint or safety systems must be used. All minors whose physical characteristics (e.g., height, weight) fall within the legal limits in force in each country must be protected by approved restraint or safety systems (e.g., child seats, cushions).

You are therefore advised to **ALWAYS** use certified child restraint systems that bear the proper approval marking and check they comply with Federal Motor Vehicle Safety Standard 213.

 Incorrect fastening of a child restraint system increases the risk of injury to the child if an accident occurs.

- The seat belts in the vehicle have been designed and tested to protect persons weighing at least 79 lb. (36 kg) and taller than 59 in. (1.50 m).

- To properly protect children outside these limits, specific restraint systems with dedicated belts or accessories capable of adapting the child's position to the vehicle seat belts must be fitted.

 For installation and use (how to secure the child to the restraint system) of child restraint systems, follow the instructions that the manufacturer of the device provides.

 Carefully follow the instructions provided with the child seat: keep them in the vehicle together with the documents and this manual. Do not use second-hand child seats or child seats with no instructions.

 Follow the instructions given by the child restraint system manufacturer when choosing, installing and using the restraint system, since failure to do so may compromise its protective action.

 Always check the seat belts have been securely fastened by pulling on the seat belt.

 After an accident, have all the parts of the child restraint system and vehicle seat belt system checked and replace them if necessary.

Any work must be performed by an **AUTHORIZED FERRARI DEALER**.

 Children must never travel seated on a passenger's lap. A child weighs very little until a collision occurs! In a collision, a child becomes so heavy that it would be impossible to hold onto him/her. For example, in the event of a collision at only 25 mph (40 km/h), a child weighing 12 lb. (5.5 kg) exerts a force equal to 240 lb. (110 kg) on the arms of the person carrying him/her. Children must always be protected by a suitable restraining system.

Children must always be transported in restraint systems that are suitable for their size.

Before choosing a child restraint system, always check that:

- it is certified. Child seats certified according to Federal Motor Vehicle Safety Standard 213
- it is suitable for the height and weight of the child to be transported (CAREFULLY FOLLOW the instruc-

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tions in the child restraint system use and maintenance manual)

- it can be securely installed in the vehicle in compliance with the child restraint system manufacturer's instructions
- the use and installation instructions are easy to understand.

⚠ If violent braking or a collision occurs, children who are not held in a restraint system can be thrown against the dashboard or the windshield: this may lead to serious or even fatal injury to the child.

⚠ In the event of an accident, an improperly fastened child restraining system can increase the risk of injury.

⚠ Never allow children to travel sitting in the lap of an adult. If there is a collision, the adult's weight may crush the child against the seat belt or the dashboard: this may lead to serious or even fatal injury to the child.

NO modifications can be made to the seat belt and child restraint systems: any modifications may seriously jeopardize the safety of the child restraint system.

⚠ If the front passenger airbag is not disabled by using the Occupant Classification System (see page 52), rearward-facing child seats must not be used on the front passenger seat as the airbag could cause serious injuries during deployment, even in minor collisions.

⚠ An incorrectly installed child seat cannot protect the child as intended in the event of an accident, hard braking or sudden change of direction and can lead to serious injuries to the child.

⚠ Never place objects such as pillows or cushions underneath the child restraint. The entire base of the child restraint must always be directly resting on the seat surface.

To transport a child, use the seat belts to secure the child restraint system to the vehicle seat and make sure you have activated the automatic seat belt winding locking system before installing the child seat in the vehicle.

To activate the automatic seat belt winding locking system, pull the seat belt until the belt completely unwinds. At this point, the belt retractor will only allow the seat belt to rewind.

The fact that the seat belt cannot be pulled out confirms that the seat belt locking system has been activated.

To deactivate the locking system, unfasten the seat belt in order to allow it to rewind completely.

⚠ Each time the seat belt is used to fasten a normal occupant, the automatic seat belt winding locking system will have to be deactivated.

⚠ Always remember to deactivate the seat belt locking mechanism when removing the child seat. Having the retractor locked can be dangerous when the seat belt is used for directly restraining a passenger.

⚠ Protect the child restraint from intense sunlight by covering it (e.g., with a light blanket or cloth). The plastic parts of the child seat can become hot when exposed to sunlight and can burn your child if he/she comes in contact with them.

⚠ In countries where it is already a legal requirement, children under 12 years of age may not travel in the front passenger seat.

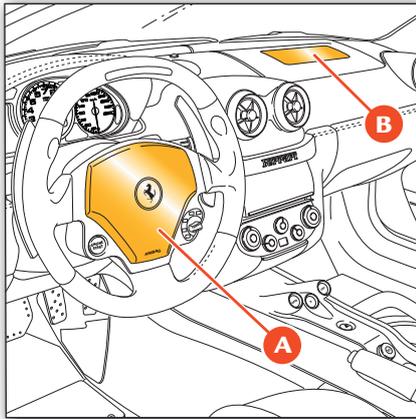
ALWAYS COMPLY with the legal requirements in force in your own state, province and country.

Driver and passenger airbags

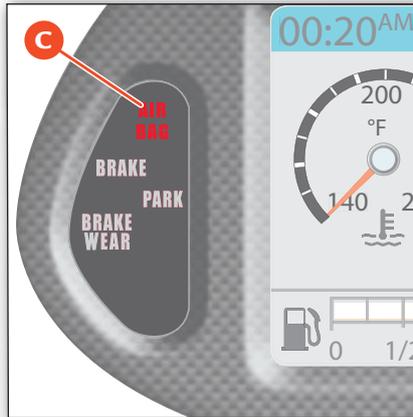
⚠ Front airbags are not a substitute for seat belts but they increase their efficiency. Correct use of the seat belts in combination with the airbag offers protection in the event of a collision.

Front airbag system components

The front airbag system consists of two inflatable cushions, one on the driver side, in the center of the steering wheel **A** and the other on the passenger side, inside the dashboard **B**.



⚠ Warning light **C** illuminates when the ignition key is turned to position **II**. If no malfunctions are detected, the warning light goes out after approximately 4 seconds. If the warning light does not illuminate, if it remains on or if it illuminates while driving, CONTACT YOUR AUTHORIZED FERRARI DEALER immediately.



⚠ The front airbags do not provide protection in the event of side-on collisions, some head-on/angular collisions, roll-overs or subsequent collisions (if there is a second collision once the airbags have been deployed in an earlier collision). The seat belts have been designed to help reduce the risk of injury in the event of a roll-over or subsequent collision.

⚠ The front airbags have been designed not to inflate if a minor collision occurs. The seat belts have been designed to help reduce the risk of injury if a minor collision occurs.

⚠ The driver and the passenger must maintain a distance of at least 10 in. (25 cm) from the steering wheel and the dashboard.

Always drive with your hands on the rim of the steering wheel so that if activated, the airbag can deploy without obstruction.

Driving with your hands on the steering wheel spokes or on the airbag cover increases the risk of injuring your wrists and arms if the airbag is activated.

 The front passenger must be seated correctly and must avoid putting hands, feet or legs on the dashboard since if the front airbag is activated, it may cause injury to legs and prevent the airbag from working properly.

Operation

The front airbags are controlled by an ECU which activates them when there is a sufficiently severe head-on collision.

In the event of a collision with an impact force that causes deceleration that exceeds the value set for the internal sensor, the ECU will transmit a signal to deploy the airbags. The airbags will begin to inflate, breaking the cover along the breakage line and will deploy completely in a few tenths of milliseconds. Once deployed, they offer protection between the driver and/or passenger and structures that could cause injury.

The airbags deflate immediately afterwards.

 The driver and passenger should not carry objects (drink cans or bottles, pipes, etc.) that may cause injury if the airbags are activated.

Persons, animals or items must not be placed between the airbags and the occupant.



When the system is activated, gases are released in the form of fumes, together with the gas used for inflating the airbags. These gases are not harmful.

 The driver and passenger must always fasten their seat belts and sit in an upright position, as far as possible away from the airbag, in order to have optimal protection in all types of collision.

 Always keep the backrest of your seat in the upright position and sit with your back properly resting against it.

Do not modify the system components or wiring, under any circumstances.

With the ignition key inserted and in position **II**, although the engine is off, the airbags can still be activated when the vehicle is stationary if it is hit by a moving vehicle.

Remember that if the ignition key is set to **0** none of the safety devices (airbags or pretensioners) is activated in the event of a collision; failure of the airbags to inflate in these circumstances is not indicative of a system malfunction.

Do not cut or tamper with the connectors of the airbag harness or on the airbag modules.

 Do not cover the steering wheel and the padded panel on the dashboard on the passenger's side with adhesive tape or treat it in any way.

 Do not place items above or near the top of the dashboard and the steering wheel.

If the airbags are deployed, these objects would be propelled into the passenger compartment at such high speed as to seriously jeopardize the safety of the occupants.

 The airbag modules are subject to wear and tear and must be replaced at the intervals indicated in the “Warranty Book” even if the vehicle has NOT been involved in a collision.

 Never modify the airbag modules. Do not damage the airbag modules (for example, pinning something onto them or pressing objects against their covers).

If, for any reason, an airbag cover gets damaged, have the airbag module immediately checked by an AUTHORIZED FERRARI DEALER.

Activation of a damaged module could cause serious or fatal injuries.

Do not remove or dismantle parts of the steering wheel, dashboard or door panels; if necessary, this procedure should only be performed by an AUTHORIZED FERRARI DEALER.

All the airbag system components must be replaced after an accident that caused airbag deployment.

Following an accident not involving airbag deployment, contact your AUTHORIZED FERRARI DEALER to have the system checked and any system components that may be damaged or malfunctioning replaced.

 The airbag system components have been specially designed only for this specific vehicle model. Do not use them on a different vehicle model, as this may cause serious damage and consequent injury, even fatal, to the occupants in the event of an accident.

 Damaged or defective components of the airbag system cannot be repaired and must be replaced.

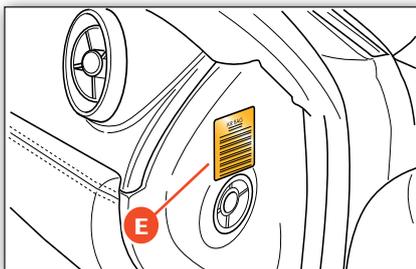
Improper operations performed on the system components may cause failures or accidental deployment of the airbags with consequent damage and injury, even fatal.



To scrap the vehicle, please contact your AUTHORIZED FERRARI DEALER to have the airbag system deactivated.

If the vehicle has been stolen or there has been an attempted theft, have the airbag system checked by your AUTHORIZED FERRARI DEALER.

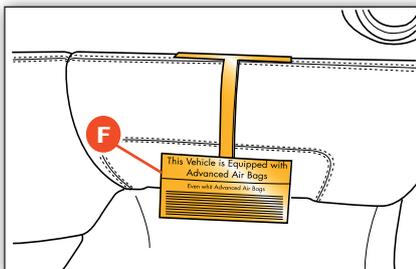
The label **E**, on the right-hand side of the dashboard, bears the airbag system expiration date. When this expiration date is approaching, contact your AUTHORIZED FERRARI DEALER in order to have the system replaced.



The labels **G** and **H** indicate the presence of the airbag system.



Established legislation in some countries already provides that children under 12 years of age may not travel in the front passenger seat.
The label **F** on the dashboard may be removed only by the customer.



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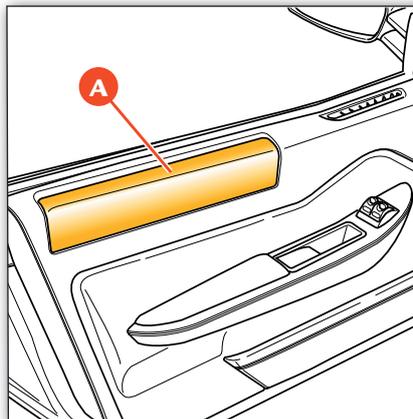
Side airbags

⚠ Airbags are not a substitute for seat belts but they can help increase their efficiency. Correct use of seat belts, with the supplementary action of the side airbags, is designed to help provide protection in the event of certain side collisions or certain vehicle roll-overs.

Side airbag system components

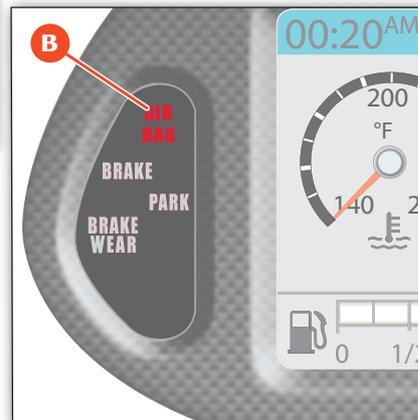
⚠ The side airbags fitted on the vehicle are not designed to reduce the risk of being thrown out in the event of vehicle roll-overs.

The vehicle has 2 side air bags, one in the driver-side door **A** and the other in the passenger-side door.



The side air bag system consists of 2 air bags, one on each door. In the event of certain side collisions of sufficient force, the airbag on the impact side is designed to deploy immediately to help protect the occupant's head.

⚠ When the ignition key is turned to position II, the warning light **B** will illuminate. If no malfunctioning in the airbag system is detected, it will go off after 4 seconds. If the warning light does not illuminate, if it remains on or if it illuminates while driving, contact your AUTHORIZED FERRARI DEALER immediately.



Operation

The side air bags are controlled by the ECU designed to activate them when a sufficiently severe collision occurs.

In the event of a side collision with a force of impact exceeding the limit set by the ECU, the ECU is designed to transmit a signal that activates the pretensioner and the side air bag on the impact side. The airbag is designed to start deploying, opening its cover along the breaking line, until it is fully deployed (in a few hundredths of seconds).

After deployment, the side air bag is designed to act as a protection between the driver's or passenger's head and the external structures. The airbags deflate immediately afterwards.

Side air bag activation is not affected by the occupant's height or weight. The side air bag is activated whenever the airbag ECU detects a side impact collision of a sufficient impact force for deployment.

⚠ Never drive with your head out of the window as this places your head and neck in the airbag deployment area. In the event of a side collision, this position increases the risk of being thrown out of the vehicle and compromises the protective effect of the side air bags.

⚠ Never place an object over or near the airbag covers.

If the airbags are deployed, these objects would be projected into the passenger compartment at such high speed as to seriously jeopardize the safety of the occupants.

⚠ Never modify the airbag modules. Do not damage the airbag modules and trim panels above them by pinning something onto them or pressing objects against their covers, for example.

If, for any reason, an airbag cover gets damaged, have the airbag module immediately checked by an **AUTHORIZED FERRARI DEALER**.

Activation of a damaged airbag module could cause serious injury.

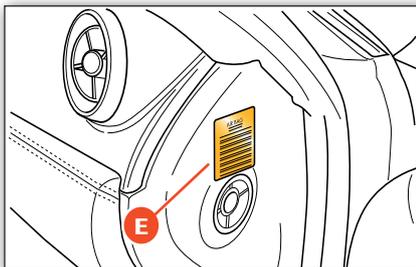
The airbag ECU is not capable of automatically detecting any damage to the airbag covers.

Do not cover the upper part of the driver-door and passenger-door panels with adhesive tape or material and do not treat them in any way.

⚠ After deployment, the airbag components can no longer offer any protection; therefore, they cannot be repaired and must be replaced. After activation of a side air bag, have it replaced by an **AUTHORIZED FERRARI DEALER**.

⚠ The airbag modules are subject to wear and tear and must be replaced at the intervals indicated in the "Warranty Book" **EVEN** if the vehicle has **NOT** been involved in a collision.

The label **E**, on the right-hand side of the dashboard, bears the airbag system expiration date. When this expiration date is approaching, contact your **AUTHORIZED FERRARI DEALER** in order to have the system replaced.

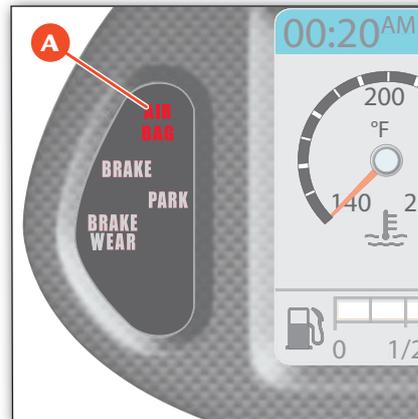


Never remove the door panel. If required, this operation must be performed by an AUTHORIZED FERRARI DEALER.

Advanced Airbag System

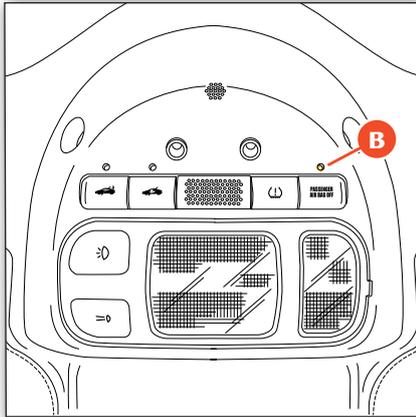
The system includes:

- a 3-point seat belt (lap and shoulder seat belt) at each seating position, equipped with a pretensioner, an energy management system and a seat belt sensor, which detects when the seat belt is fastened (see also page 35)
- a dual stage driver's airbag at the driver position, located within the steering wheel (see also page 42)
- a dual stage passenger's airbag at the front passenger position, located on top of the dashboard (see also page 42)
- two remote acceleration sensors, located in the engine compartment
- a control unit, located on the center console, in the passenger compartment
- an Occupant Classification System for the front passenger, located underneath the passenger seat, including 4 sensors and a control unit (see also page 52)



- a readiness indicator (red warning light **A** in the instrument panel) (see also page 42) also called "airbag failure warning light"

- a passenger airbag status indicator (amber warning light **B** “PASSENGER AIRBAG OFF” on the roof panel) (see also page 53)



- a multi-function display, which will temporarily issue a redundant warning on the passenger airbag status.



The system is designed to:

- disable passenger airbag deployment if a child is sitting in a rearward-facing child seat on the front passenger seat
- enable passenger airbag deployment if an adult is sitting on the front passenger seat
- either disable or enable passenger airbag deployment if a child heavier than a typical one-year old child is

sitting on the front passenger seat in a forward-facing child seat (see also page 52 for more details about Occupant Classification System)

- disable passenger airbag deployment if nobody is traveling in the front passenger seat or if an object is placed on top of it.

The passenger airbag status can be monitored by checking the “PASSENGER AIRBAG OFF” warning light **B**. This warning light will be illuminated if passenger airbag deployment is disabled, and will be turned off if passenger airbag deployment is enabled.



Do not carry adults in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is illuminated, as the passenger airbag will not deploy in a frontal crash, thus reducing the system’s ability to protect the occupant.



Do not carry children in rearward-facing child seats in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is not illuminated, as the passenger airbag could deploy in a frontal crash, causing serious injury or even death.

The system components are designed to work together to help provide the occupant with the most appropriate protection level, based on crash severity and front passenger classification:

- The Occupant Classification System will attempt, based on the weight resting on the seat, to classify the front passenger either as a child (see also page 52 for more details about the Occupant Classification System), for which airbag deployment is not appropriate, as it can result in serious injuries and death, or an adult (see also page 52 for more details about the Occupant Classification System), for which deployment is appropriate depending on the crash severity.

The classification system will then transmit the occupant classification to the control unit, that will use the information to enable or disable passenger airbag deployment (see also page 52 for more details about the Occupant Classification System).

- In the event of certain frontal crashes, the electronic control unit will use the signal from the remote acceleration sensors, from the Occupant Classification System and from the seat

belt sensor to supplement its internal sensing capabilities. The control unit is designed to use this signal to determine whether airbag deployment and pretensioner activation are required.

- For frontal crashes, based on the angle and severity of the crash and on the front passenger classification, the airbag control unit is designed to determine whether to or not to:
 - deploy the airbags
 - deploy the airbags in low energy mode
 - deploy the airbags in high energy mode.
- For low severity crashes, the airbag control unit will not deploy the airbags.
- For crashes of higher severity, the control unit will deploy the driver airbag in low energy mode and will use the signal from the Occupant Classification System to determine whether to deploy the passenger airbag in low energy mode or not to deploy the airbag (if the front passenger is classified as child it will not deploy the airbag. If the front passenger is classified as adult it will deploy the airbag) (see also page 52 for more details about the Occupant Classification System).

- For crashes of even higher severity, the control unit will deploy the driver airbag in high energy mode and will use the signal from the Occupant Classification System to determine whether to deploy the passenger airbag in high energy mode or not to deploy the airbag (if the front passenger is classified as child it will not deploy the airbag. If the front passenger is classified as “adult” it will deploy the airbag).

If the airbags are deployed, the seat belt pretensioner will also be activated for every seating position where the seat belt is fastened.

The airbag control unit will use the seat belt status indicated by the seat belt status sensor in order not to activate the seat belt pretensioner for the seating position where the seat belt is not fastened.

The control unit is also designed to perform a check of all the electrical components in the system (including a self check) upon ignition and periodically thereafter, until the engine is turned off.

Upon ignition, the “airbag” red warning light in the instrument panel illuminates for a few seconds, to confirm the warning light functionality (see page 41).

Whenever the control unit detects a fault in the system, it will illuminate the “airbag” red warning light in the instrument panel, to inform the driver that there may be a system malfunction.

If:

- the “airbag” warning light does not illuminate at key on (ignition key in position II)

or

- the “airbag” warning light does not turn off a few seconds after key ON

or

- the “airbag” warning light illuminates while the vehicle is in motion

carefully stop the vehicle in a safe place and contact your AUTHORIZED FERRARI DEALER immediately.

When the “airbag” warning light is illuminated, the system functionality may be compromised or disabled.

Improper repair work on the Advanced Airbag System or one of its components can render the system inoperative, or cause unintended airbag deployment. Work on the Advanced Airbag System must only be performed by qualified technicians. Please contact your AUTHORIZED FERRARI DEALER for repair work on the Advanced Airbag System of your vehicle.

Fastening your seat belts is always necessary, even with advanced airbags.

Front airbags are not a substitute for the seat belts. The front airbags are designed to help increase the efficiency of the seat belts and supplement the protection offered by the seat belts in medium to high severity frontal crashes.

The seat belts must be properly worn and fastened in order to offer protection. Refer to page 35 for proper use of the seat belts.



Never place an object over or near the driver's or passenger's airbags. In the event that the airbag is deployed, it will project any object over it, or near it, in the passenger compartment at very high speed. The object will be transformed into a projectile propelled in the passenger compartment. This could cause serious injuries.



Seat belts are designed to help minimize injury severity in the event of an accident. To help achieve optimal protection for adults, the airbags should supplement the seat belts. Always wear your seat belts properly fastened.



Front airbags cannot offer protection in side crashes, certain front-angular crashes, roll over events or in subsequent impacts (e.g., if a second crash happens after the airbags have been deployed in a previous crash). The seat belts are designed to help reduce the risk of injuries in roll over events and secondary front impacts. A properly fastened seat belt is needed to help protect occupants in roll over events and secondary front impacts.

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 Front airbags are designed to not be deployed in low severity frontal crashes. The seat belts can help reduce injuries in low severity crashes. A properly fastened seat belt is needed to help protect occupants in low severity frontal crashes.

 To help ensure protection in the event of a collision, you must be in a normal seated position with your back against the seat backrest. The passenger's feet must be on the footrest. The driver's left foot must be on the footrest.

 Adjust your seat as far back as possible, ensuring you can operate the vehicle controls properly and comfortably. Keep your hands on the steering wheel rim, without crossing them. Placing your hands or arms inside the rim increases the risk of hand/arm injuries in the event of a crash with driver's airbag deployment.

 Never place your feet on the dashboard or the instrument panel or out of the window, as this will seriously affect the ability of the system to protect you in the event of a crash, and can result in induced injuries in the event of airbag deployment.

Occupant Classification System

The Occupant Classification System is designed to:

- disable passenger airbag deployment if a child that is lighter and smaller than a typical one-year old child (up to 20.1 lbs - 9.1 kg and 26 in. - 66 cm) is traveling in a rearward-facing child seat (see NOTE 1) mounted on the front passenger seat
- enable passenger airbag deployment if an adult (weighing more than a 103 lbs - 46.7 kg) is sitting on the front passenger seat
- disable or enable passenger airbag deployment if a child heavier than a typical one-year old child is seated on the front passenger seat

NOTE 1

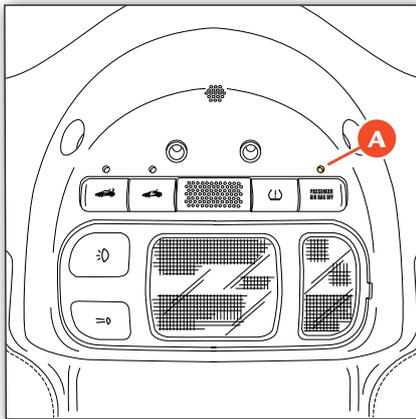
The functionality of the system has been verified by FERRARI for all the following child seats (with specific model numbers):

Cosco Dream Ride 02-719
 Britax Handle with Care 191
 Century Assura 4553
 Century Smart Fit 4543
 Cosco Arriva 22-013 PAW
 Cosco Arriva base 22-999 WHO
 Evenflo Discovery Adjust Right 212

Evenflo First Choice 204
 Graco Infant 8457
 Britax Roundabout 161
 Britax Expressway
 Century Encore 4612
 Century STE 1000 4416
 Cosco Olympian 02803
 Cosco Touriva 02519
 Evenflo Horizon V 425
 Evenflo Medallion 254
 Safety 1st Comfort Ride 22-400
 Graco Snugride
 Peg Perego Primo Viaggio SIP IMUNO0US
 Graco Comfort Sport
 Cosco Summit Deluxe
 High Back Booster 22-262
 Evenflo Generations 352xxxx
 Graco Toddler SafeSeat Step 2
 Graco Platinum Cargo
 Cosco High Back Booster 22-209

The status of the passenger airbag will be indicated by the warning light "PASSENGER AIRBAG OFF" on the roof panel:

- when passenger airbag deployment is disabled, the "PASSENGER AIRBAG OFF" warning light, **A**, will be illuminated



- when passenger airbag deployment is enabled, the “PASSENGER AIRBAG OFF” warning light, **A**, will NOT be illuminated.

⚠ Adults should not travel in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is illuminated.

⚠ Children in a rearward-facing child seat must not travel in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is not illuminated.

- Install child seats always when the ignition key is in position **0** (electrical system off).

⚠ Installing a child seat with the ignition key in position **II** can result in induced injuries.

- The extra weight applied on the seat during child seat installation might delay correct occupant classification if the child seat is mounted with the ignition key in position **II**.

After turning the key to **ON**, the Occupant Classification System will continuously attempt to classify every object or person on the front passenger seat in one of two categories: “Child” (for which passenger airbag deployment is dangerous and must be disabled) or “Adult” (for which passenger airbag deployment is beneficial and must be provided). Occupants or objects lighter than a typical one-year old child sitting on a child seat (including an empty seat) will be classified as “child”. Occupants or objects heavier than a typical one-year old child will be classified as “adult”.

If the Occupant Classification System identifies the front passenger as a child, passenger airbag deployment will be disabled and the “PASSENGER AIRBAG OFF” warning light, **A**, on the roof panel will be illuminated.

If the Occupant Classification System identifies the front passenger as an “adult”, passenger airbag deployment will be enabled and the “PASSENGER AIRBAG OFF” warning light, **A**, will not be illuminated.

The system does not disable the front passenger seat belt pretensioner (also known as emergency tensioning device).

The system does not disable the front passenger side bag.

When the key is turned to **ON**, the system will require a few seconds to classify the passenger on the front seat. As long as the system is in the process of classifying the occupant, the default setting will be child, to avoid the risk of injuring a child during this time.

If the Occupant Classification System identifies a change in the classification of the front passenger after the vehicle is started (for example, if the driver stops without turning off the engine to allow a front passenger to get in or get out), the system will update the passenger airbag status and the “PASSENGER AIRBAG OFF” warning light status accordingly.

Please note that the system may take a few seconds to update the front passenger classification when the passenger status changes.

If the Occupant Classification System recognizes an internal error, it will signal the airbag control unit that there may be a malfunction, and the control unit will attempt to:

- illuminate the “airbag” red warning light on the instrument panel
- disable passenger airbag deployment to avoid the risk of injuring a child, lacking a certain occupant classification
- illuminate the “PASSENGER AIRBAG OFF” warning light on the roof panel.

Please note that when the “airbag” warning light is illuminated, there may be an error also in the central control unit, and the system might not be able to perform as designed.

Driving carefully, stop the vehicle in a safe place and contact your **AUTHORIZED FERRARI DEALER** immediately if the “airbag” red warning light on the instrument panel illuminates.

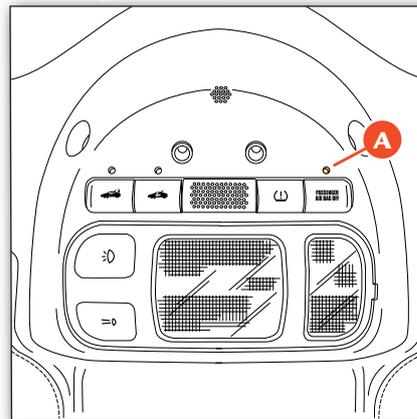
The system’s ability to classify the occupant in the correct class can be reduced if:

1. An adult transfers part of his/her weight onto other objects other than the seat, e.g.:
 - by leaning on the armrest
 - by leaning on the center console
 - by putting his/her feet on the dashboard or out of the window
 - by leaning on a headrest.
2. An object is tucked underneath the seat or behind it.
3. An object is tucked between the seat and the center console, or between the seat and the door panel.
4. An adult is extremely light (less than 102.9 lbs - 46.7 kg).
5. A child has outgrown the weight for which rearward-facing child seats are appropriate.
6. An object is stored behind the passenger seat and contacts the seat.
7. Weight is placed on the front passenger seat.
8. The front passenger seat is tampered with.
9. A child seat contacts the dashboard.

10. A child seat is too heavy (see NOTE 1 on page 52).

11. The seat backrest contacts the rear shelf. A button provided on the rear shelf will move the seat backrest forward.

12. The vehicle is used in certain extreme driving conditions.



If the “PASSENGER AIRBAG OFF” warning light, **A**, illuminates when an adult is seated on the front passenger seat:

- slow down and instruct the front passenger not to lean on the vehicle interiors.

If the “PASSENGER AIRBAG OFF” warning light, **A**, is still illuminated:

- driving carefully, stop the vehicle in a safe place
- check for objects tucked underneath the seat or behind it
- check for loose objects on the passenger floor, either in front or behind the front seat.

If the “PASSENGER AIRBAG OFF” warning light, **A**, is still illuminated, call for assistance.



Do not carry adults in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is illuminated, as the passenger airbag will not deploy in a frontal crash, thus reducing the system’s ability to protect the occupant.

If the “PASSENGER AIRBAG OFF” warning light, **A**, does not illuminate when a child in a rearward-facing child seat is seated on the front passenger seat, drive at reduced speed.

If the “PASSENGER AIRBAG OFF” warning light, **A**, is still not illuminated:

- driving carefully, stop the vehicle in a safe place
- check for contact between the child

seat and the dashboard or other vehicle interiors

- check for objects tucked underneath the seat or behind it
- check for loose objects on the passenger floor, either in front or behind the front seat
- verify that the child has not outgrown the weight for which rearward-facing child seats are appropriate. If this is the case, install a forward-facing child seat appropriate for the child weight
- if the child has not outgrown the weight for which rearward-facing child seats are appropriate, try installing a lighter child seat, if available.

If the “PASSENGER AIRBAG OFF” warning light, **A**, is still not illuminated: turn off the engine (key to position **0**) and wait a few seconds.

Restart the engine (see page 108 - 113).

If the “PASSENGER AIRBAG OFF” warning light, **A**, is still not illuminated call for assistance.



Do not carry children in rearward-facing child seats in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is not illuminated, as the passenger airbag could deploy in a frontal crash, causing serious injury or even death.

ABS

The **ABS** system is a safety device which is designed to activate to help prevent wheel locking if the driver presses the brake pedal too sharply, especially under low grip conditions.

The system is composed of:

- electro-hydraulic unit
- electronic brake-force distribution **EBD**
- four speed sensors on the wheels, incorporated in the bearings.

These features add to the vehicle's standard braking system, without changing its characteristics.

When the **ABS** system is activated, during emergency braking or in poor grip conditions, a “pulsing” sensation will be felt through the brake pedal. This is normal. Hold the brake pedal down to continue the braking action.

When one of the wheels starts locking, the hydraulic control unit controls the braking circuit by running a 3-phase cycle:

- reduction (if necessary)
- maintenance
- pressure increase in the hydraulic circuit.

The system is designed to provide the following advantages:

- Enhanced driving stability: even in the event of sharp braking approaching wheel locking.
- Improved handling.

This means that even when an emergency situation requires sudden braking, the driver can avoid obstacles, or brake on a curve, without affecting the vehicle stability.

⚠ ABS system performance remains unaltered as long as the speed limit for the tire side grip is not exceeded. If this limit is exceeded, vehicle skidding cannot be avoided.

⚠ The ABS system does NOT exempt the driver from driving carefully and responsibly at all times.

The **ABS** system cannot compensate for driving too fast for traffic or road conditions, worn tires, worn braking system components or driving errors.

The **ABS** system has been designed for the sole purpose of assisting the driver in controlling braking under extreme conditions in which he/she might otherwise cause the wheels to lock.

CST

The **CST** is composed of two main systems:

VDC Vehicle Dynamics Control, performed through the braking system

F1-Trac traction control, performed through engine torque modulation, depending on maximum grip on the road

and secondary systems that are always active such as the **ABS** and **EBD**.

To help provide optimal control in different driving and grip conditions, five different settings have been developed:

- **Level 1:** (Manettino set to **Low-grip**) helps to ensure stability and maximizes traction on every type of road surface, both in low and very low grip conditions, by means of engine and brake control (in this condition, the standard **ASR** system is activated instead of the **F1-Trac** function).

- **Level 2:** (Manettino set to **SPORT**) helps to ensure stability and maximizes traction only in medium- to high-grip conditions by optimizing engine and brake control.

- **Level 3:** (Manettino set to **RACE**)

enhances the racing features of the vehicle by reducing engine control to a minimum and maximizing brake control. This mode is designed to help ensure stability on the race track in high grip conditions only.

- **Level 4:** (Manettino set to **CT OFF**) further enhances the racing style performance of the vehicle: **F1-Trac** traction control is deactivated whereas stability control remains active when a certain level of sideslip is exceeded. **F1-Trac** traction control is off. Stability is NOT guaranteed.
- **Level 5:** (Manettino set to **CST OFF**) **CST** off. Stability is NOT guaranteed, but all the other auxiliary systems such as the **ABS** and **EBD** remain active. During braking, the **VDC** system remains active.

F1-Trac

F1-Trac is a traction control system that derives directly from FERRARI's expertise in F1 vehicles.

F1-Trac is faster and more accurate than traditional control systems and is capable of delaying and minimizing engine torque adjustments as required in order to ensure the desired trajectory.

The system estimates the maximum available grip in advance, by continuously monitoring the relative wheel speed and using an auto-adaptive operating logic. Comparing this information with the vehicle dynamics model stored in the control system, **F1-Trac** helps optimize the vehicle behavior by controlling engine torque delivery.

F1-Trac does not work when the Manettino is set to **CT OFF** and **CST OFF** driving modes.

Tire pressure and temperature monitoring system - TPMS

The vehicle is equipped with a system that measures the tire pressure and temperature using special sensors fitted inside the wheel rims next to the air valve. These sensors transmit a signal that is received by the antennas on the car body, behind the gravel guards, that are connected to the ECU.

The system may be momentarily affected by radioelectrical interference from devices that use similar wavelengths.

The ECU processes this information and transmits data on tire pressure and temperature and any system errors to the instrument panel.

The signal transmitted by the ECU activates symbols on the TFT display with two priority levels: a **soft warning (SW)** if the pressure loss is **2.9 psi (0.2 bar) more** than the rated pressure and a **hard warning (HW)** if it is **7.25 psi (0.5 bar) more** or there is a dynamic decrease of over 2.9 psi/min (0.2 bar/min).

System calibration using the button positioned on the roof panel (see page 100) is necessary after replacement or inflation of a tire or tires.

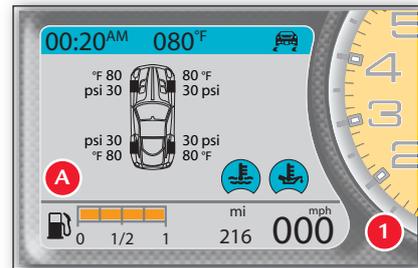
⚠ The TPMS warns the driver that the tire pressure has decreased. However, this does NOT exempt the driver from periodically checking that the tires are inflated to the indicated pressure.

In addition, the system does NOT warn the driver of damage to the tires by external agents.

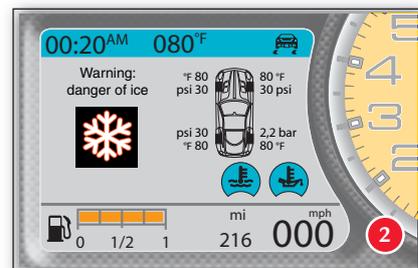
Displaying messages on the TFT display

By pressing the **DISP** button or using the Menu function, the driver can access the TIRES screen page, which shows the vehicle symbol with the pressure and temperature values of each tire, as shown in example **1**.

The system displays the tire temperature only and does not monitor changes in tire temperature. There are no messages concerning temperature on the TFT display.



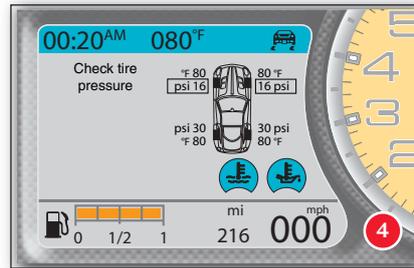
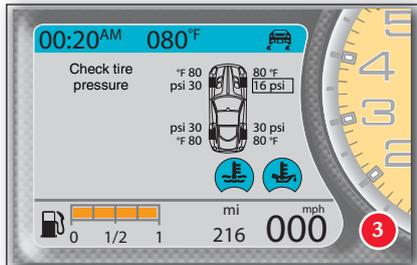
If an event occurs that needs to be displayed as a symbol and/or special message when the TIRES screen page is displayed (for example, malfunctions with **priority levels 1/2**, see page 92), the page is minimized as in the following example **2** for a period lasting the entire display cycle.



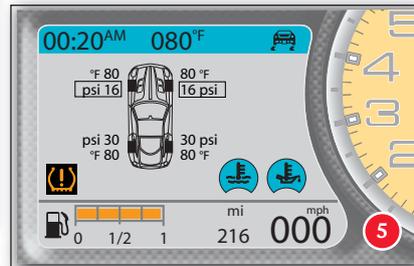
When the display cycle ends, the TIRES screen page is displayed again and the malfunction symbol is minimized in the specific area A (example 1), until the malfunction is corrected.

Low pressure

Regardless of the type of screen page on the TFT display, when the instrument panel receives the signal from the tire pressure ECU that the pressure level of one or more tires is below the alarm threshold, the screen page shown in example 3 (for a warning related to only one tire) or example 4 (for a warning related to several tires) appears immediately.

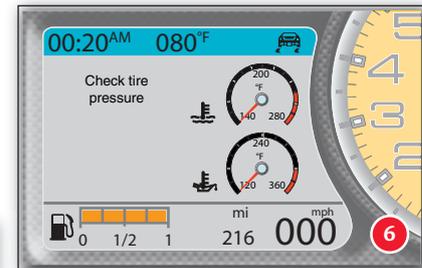


The screen page is displayed for 20 seconds and then the screen page that was previously displayed reappears. If the TIRES screen page was already displayed, the TFT display appears as in the following example 5 (minimized symbol) when the display cycle ends.



If the failure persists, the screen page shown above (example 3 or 4) will be automatically displayed for 20 seconds the next time the engine is started.

Occasionally, the system may not detect which wheel signals a failure. If this is the case, then only the message “Check tire pressure” will be displayed as shown in example 6.



Once the display time has elapsed, the screen page disappears.

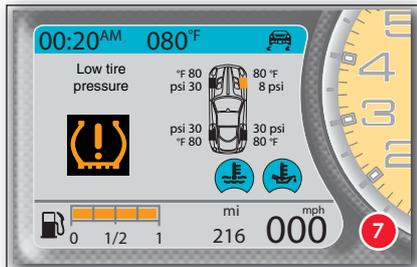
The TIRES screen page cannot be recalled by the driver.

Also in this case, the next time the engine is started, the screen page will be displayed again if the pressure fault persists.

The symbol will then be minimized in area **A** until the situation has been corrected as with the other **priority level 2** malfunctions.

Tire puncture

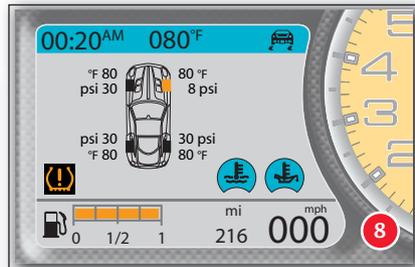
Regardless of the type of screen page on the TFT display, the screen page shown in example **7** appears immediately when the instrument panel receives the signal from the tire pressure ECU that the pressure level of one or more tires is below the alarm threshold. At the same time, the warning light on the instrument panel (see page 87) illuminates.



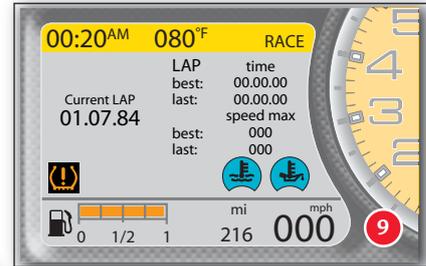
The same display logic is applied for the other **priority level 0** malfunctions, until the situation is corrected and the system is recalibrated (following a key-off and key-on cycle).

The symbol will then be minimized in area **A** until the situation has been corrected as with the other **priority level 2** malfunctions.

If the TIRES screen page is set as the main page, screen page **8** will be displayed.

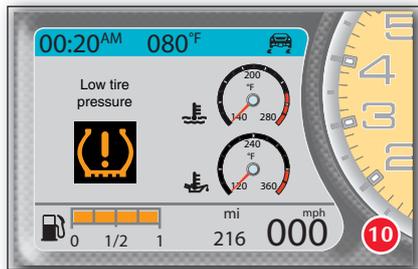


If the TIRES screen page is not set as the main screen, the following screen page **9** will be displayed.



Following a key-off/key-on cycle, the message “TPMS not calibrated” appears on the TFT display (see page 49); the TIRES screen page cannot be called up by the driver.

Occasionally, the system may not detect which wheel signals a failure. If this happens and the TIRES screen page is set as the main page, screen page **10** will be displayed.

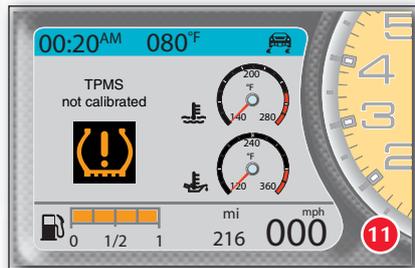


If the TIRES screen page is not set as the main page, when the display cycle has been completed the symbol will be minimized in area **A** (priority level 2).

The TIRES screen page cannot be recalled by the driver.

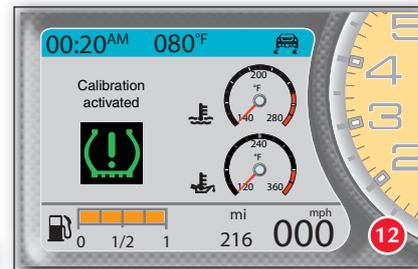
System not calibrated

If the system has not been calibrated or one or more tires have been replaced, screen page **11** is displayed. At the same time, the appropriate warning light on the instrument panel (see page 99) illuminates. The warning light remains lit until the system has been calibrated.



Subsequently, the screen page reappears with the symbol minimized in the warning lights area (as with the other **priority level 2** malfunctions).

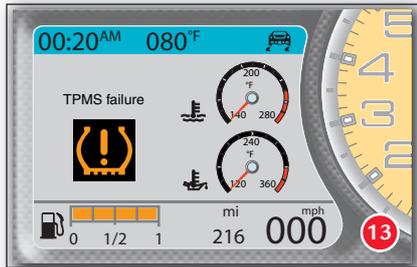
The system may be calibrated by pressing and holding the appropriate button for 4 to 10 seconds (see page 100), with the key turned to on. When the button is pressed and the next calibration procedure has been accepted, screen page **12** appears for 5 seconds.



The TIRES screen page cannot be recalled by the driver.

-  Before calibrating the system, make sure that the tire pressure corresponds to the indicated pressure values (see page 28). If this is not the case, the system may give incorrect low pressure indications.

TPMS failure



Screen page **13** is displayed in the following cases:

- malfunction in the circuit and/or wiring leading to the ECU
- signal reception failure by one or more sensors due to malfunctioning, damaged or flat battery
- ECU malfunctioning.

At the same time, a warning light illuminates on the instrument panel (see page 99). The warning light then remains on until the situation is corrected.

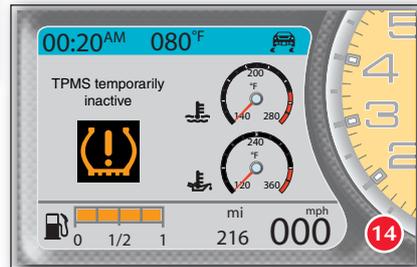
The TIRES screen page cannot be recalled by the driver.

System temporarily not active

When the following conditions occur:

- excessively high temperature;
- during the first calibration;
- radio frequencies which disturb the wheel sensor signal;

screen page **14** is displayed.



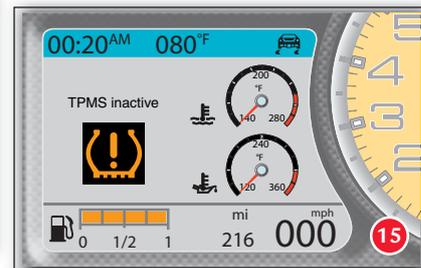
At the same time, a warning light illuminates on the instrument panel (see page 99). The warning light then remains on until the situation is corrected.

Subsequently, the screen page reappears with the symbol minimized in area **A** (as with the other **priority level 2** malfunctions).

The TIRES screen page cannot be recalled by the driver.

System not active

If the system has been deactivated with a diagnostic instrument, the following screen page **15** is displayed for a few seconds upon key-on. At the same time, a warning light illuminates on the instrument panel (see page 99). The warning light then remains on until the situation is corrected.



After the display cycle time (several seconds) has elapsed, the information disappears.

The TIRES screen page cannot be recalled by the driver.

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Glossary

7. Index



Overview of controls

Doors

Lighting system

Instruments and gauges

Roof panel controls

Controls on the steering wheel

Windshield washer/wipers
and headlight washer

Driving the vehicle

Ignition switch

Handbrake lever

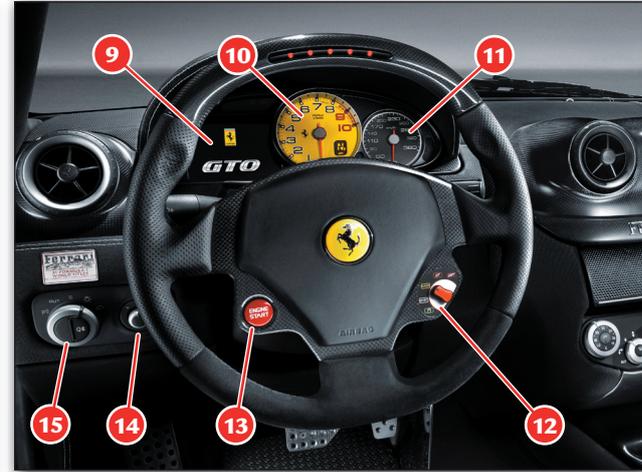
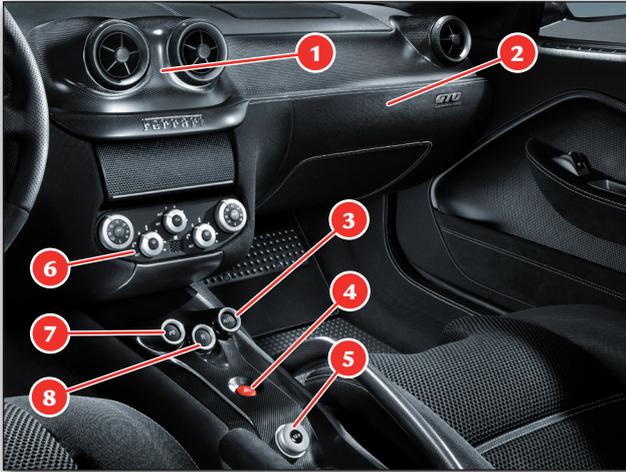
Adjustments

Air conditioning
and heating system

Passenger
compartment accessories

Overview of controls





Ref.	Control
1	Adjustable central air vents
2	Glove compartment
3	“AUTO” button
4	Hazard warning lights button
5	12V power socket
6	Air conditioning controls
7	Performance Start button
8	“R” reverse button

Page	Ref.	Control
137	9	TFT display
138	10	Tachometer and gearbox display
113	11	Electronic speedometer
77	12	“Manettino” control
139	13	“ENGINE START” button
134	14	Side view mirror controls
115	15	Light switch
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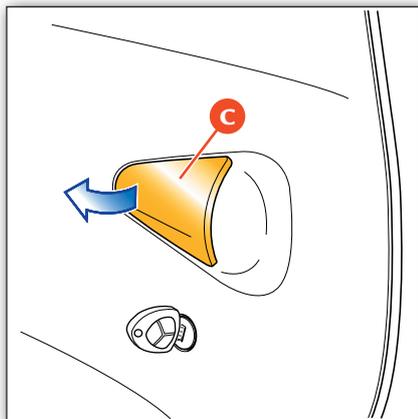
Page
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Doors

Introduction

When a door is opened or closed, the window is designed to automatically move down by approximately 0.8 in./2 cm (to its “target position”) to avoid damaging the upper weather strip. When the door is closed, the window automatically moves up until it reaches the upper limit.



Opening from the outside

Using the remote control, deactivate the alarm and the central door locking system, or turn the key in the lock to deactivate the central door locking system.

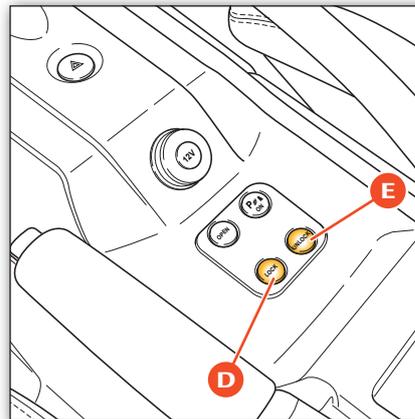
To open the door, pull handle **C**: the window will move down to its target position. When the door is closed, the window will move up until it meets the upper limit.

Locking and opening the doors from the inside

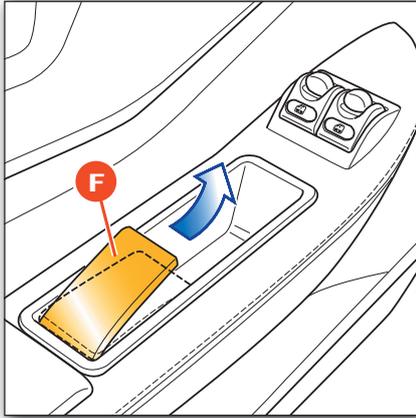
⚠ Always carefully check manually that the doors have been closed properly to prevent them from opening while driving.

Press the **LOCK D** button to lock both doors and press the **UNLOCK E** button to unlock them.

The “Lock Doors in speed” function that automatically activates the door lock when the vehicle is moving at a speed of 12 mph (20 km/h) or over can be activated on the “Car setup” menu on the TFT display (see page 80).



If you pull handle **F** to open the door, the window will move down to its target position. When the door is closed, it will move up until it meets its upper limit.



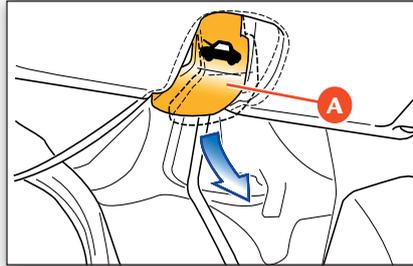
If handle **F** is lifted without opening the door, the window will move down to its target position and stop. If the door is not opened after 2 seconds, the window will move back up until it meets the upper limit.

Therefore, to open the door, release handle **F** and pull it again.

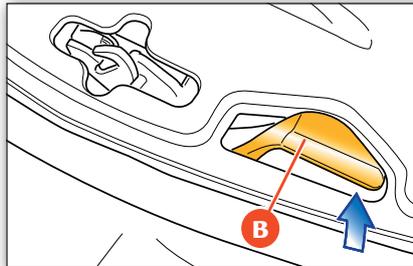
Engine compartment lid

Opening

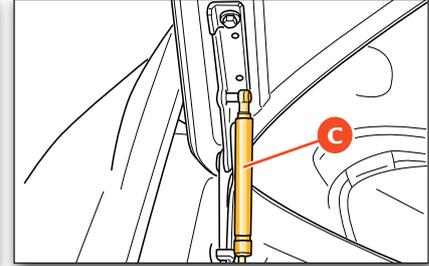
To unlock the engine compartment lid, pull the lever **A** found beneath the steering column.



Release lever **B** retaining the lid. This lever is located in the front section of the vehicle in a central position.



The lid is held open by two gas struts **C**.



Closing

Lower the lid completely and press down near the lock until you hear it click in place.

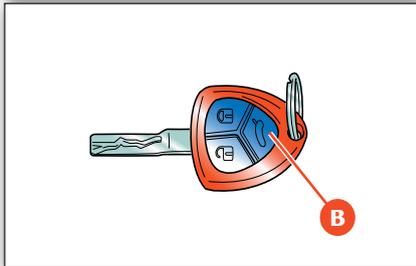
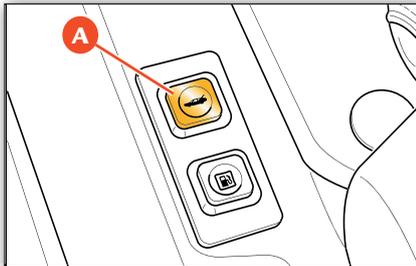
⚠ Always check manually that the engine compartment lid has been closed properly to prevent it from opening while driving.

Luggage compartment lid

Opening

To open the luggage compartment lid, press button **A** or button **B** on the key remote control holding it down for more than 2 seconds.

The luggage compartment is illuminated by an internal light that comes on automatically when the luggage compartment lid is opened.

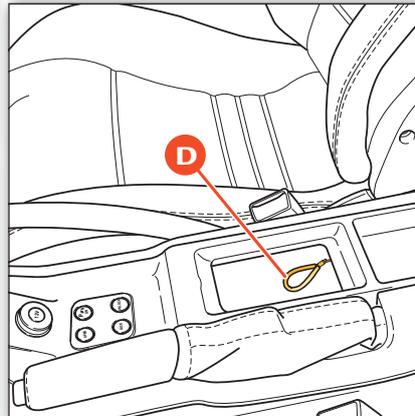


Closing

Using the grip on the inside, lower the lid completely and press down near the lock until you hear it click in place.

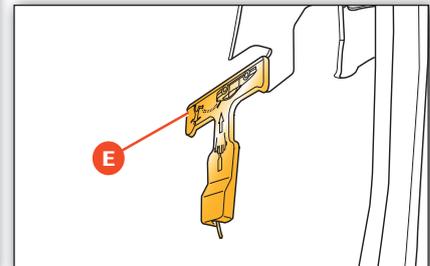
Emergency Opening

If button **A** and button **B** on the key remote control are not functioning, lift the trim panel (using the tab) of the pocket-change tray on the center console, and pull the ring **D** of the safety cable.



Emergency exit from inside the luggage compartment

If someone remains closed inside the luggage compartment accidentally, the luggage compartment lid can be opened from the inside by pulling the handle **E**, located on the back, right-hand side of the luggage compartment on the right of the lock.



Fuel tank cap and door

⚠ Always turn off the engine during refueling. Take extreme care when removing the cap.

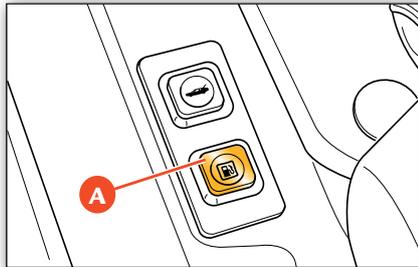
Do not smoke or use open flames when refueling. There is a risk of fire.

The following can be harmful for your health:

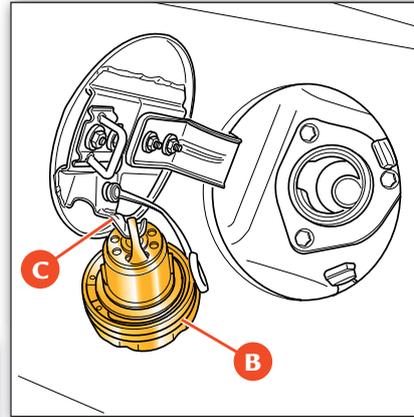
- fuel coming into contact with your skin
- inhaling fuel vapors.

Opening

•With the key in position **0**, press the release button **A** to unlock the fuel door.



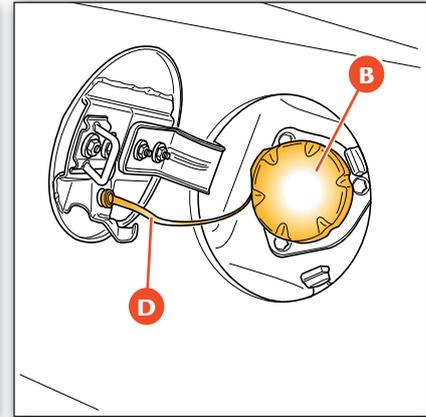
Unscrew the cap **B**, rotating it counter-clockwise and hang it on the hook **C**.



Closing

Screw the cap **B** back on tightly and close the fuel door.

Make sure that the cord **D** is not hanging out of the fuel door.



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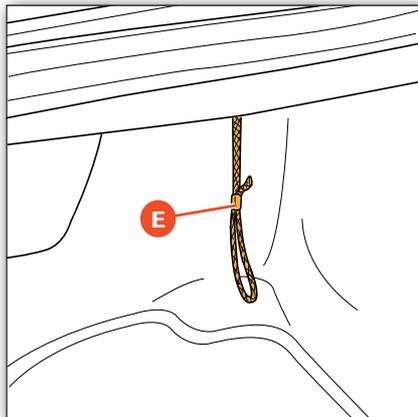
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Emergency Opening

In the event of a failure of the button **A**, the fuel door can be opened manually by pulling the cable **E**, located on the left-hand side of the luggage compartment.

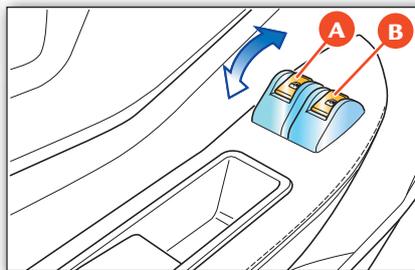


Power windows

The power windows can only be operated with the ignition key in position II.

Driver-side power window

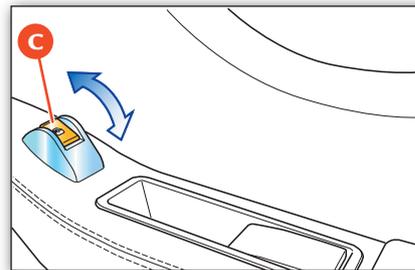
Use button **A** to move the window up or down. This allows manual operation (partial opening/closing) or automatic operation (complete opening/closing): press button **A** and quickly release to activate manual operation; if the button is pressed at length (over 0.3 seconds), automatic window operation is activated. The window will only stop when it reaches the end of its travel or by pressing the button again.



The driver side is also equipped with button **B** which operates the passenger side power window.

Passenger-side power window

Use button **C** to move the window up or down.



Only manual operation is possible (partial opening) to raise the window: when button **C** is released, the window stops at the position reached. To lower the window, automatic operation is also possible (full opening): if the button is held down (over 0.3 seconds) automatic window operation is activated. The window will only stop when it reaches the end of its travel or if the button is pressed again.

When the door is open, the window moves up to its target position; this is to prevent the window from damaging the upper weather strip when the door is closed.

⚠ Pay particular attention during the operation of the driver-side power window, because the window will open / close automatically when the feature is activated.

Improper use of the power windows can be dangerous. Before use, always check that people and objects are at a safe distance.

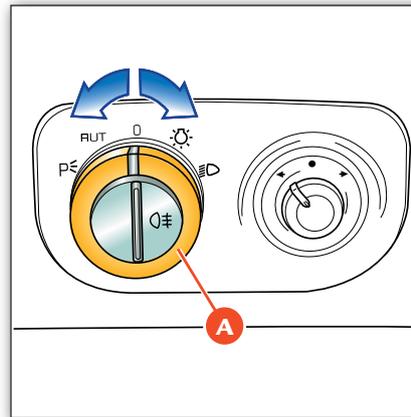
To protect the passengers remaining in the car against accidental activation of the power windows, always remove the key from the ignition.

Lighting system

The external lights and turn indicators only work when the ignition key is in position II.

The external lights can be turned on and off manually or automatically, depending on the ambient light.

Light switch

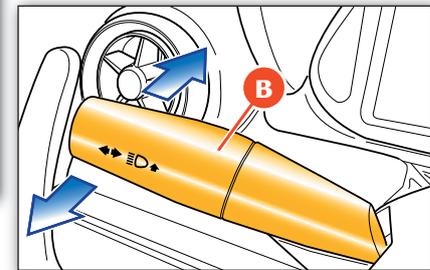


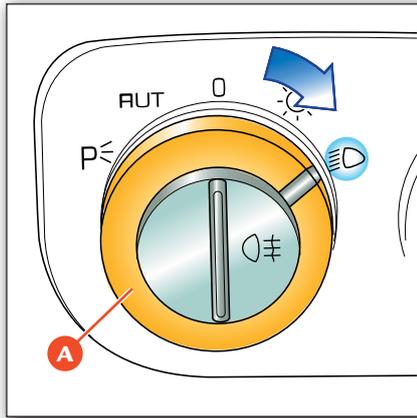
The switch **A**, on the dashboard to the left of the steering wheel, can be set to five different positions:

- 0** Lights off
 -  Position and license plate lights on (*)
 -  Low beams on (*)
 -  Parking lights
 - AUT** Automatic operation of the external lights according to ambient light.
- (*) The appropriate indicator light on the instrument panel (see page 99) illuminates.

High beams

To turn on the high beams when the light switch **A** is set to , push the left-hand lever **B** towards the dashboard.





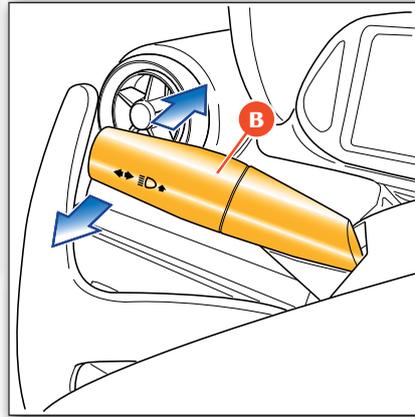
When the high beams are on, the appropriate warning light  (see page 99) illuminates on the instrument panel.

Pull the lever **B** towards the steering wheel again to turn off the high beams and turn on the low beams.

Follow the road regulations of the state or province you are traveling in for using the high beams.

Flashing the headlights

The headlights can be flashed by pulling the left-hand lever **B** towards the steering wheel.



Flashing also occurs with lights off if the ignition key is set to **II**.

The high beams are used for flashing.

Follow the road regulations of the state or province you are traveling in for using the high beams.

Parking lights

The parking lights only work when the ignition key is in position **0** or the key has been removed.

They are activated by turning the light switch **A** to position **P**.

When the parking lights are on, the relative warning light  illuminates on the instrument panel.

When the parking lights are on, move the left-hand lever **B** down to turn on the left-side parking lights. Move the lever up to turn on the right-side parking lights.

Automatic activation and deactivation

When the light switch **A** is turned to **AUT** and the ignition key is in position **II**, the position lights, low beams and license plate lights turn on and off according to the ambient light.

The high beams can only be activated manually, by pushing the left-hand lever **A** towards the dashboard.

⚠ If the high beam control is activated, the high beams will turn on every time the lights are activated automatically. We recommend therefore that you turn them off every time the twilight sensor deactivates the external lights.

⚠ If there is fog during the day, the position lights and low beams will not be turned on automatically. The driver must always be ready to turn on the lights manually and also the rear fog lights, if necessary.

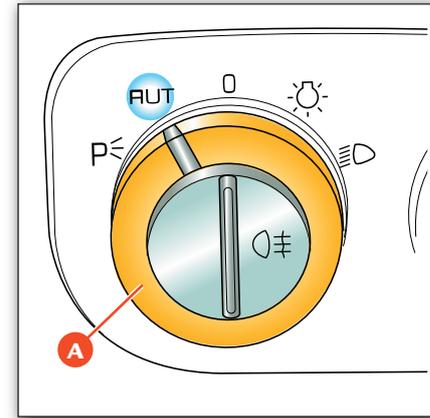
After automatic activation of the external lights, it will always be possible to turn on the rear fog lights manually. When the external lights are deactivated automatically, the rear fog lights are also turned off (if active) automatically. Therefore, if necessary, the driver will have to turn on the rear fog lights manually upon the next automatic activation.

⚠ The driver is always responsible for turning on the external lights, depending on the ambient light and in compliance with the regulations in force in the state or province of use. The automatic system for turning on and off the external lights must be considered an aid for the driver. If necessary, turn the lights on and off manually.

Twilight sensor

The twilight sensor consists of a global sensor which measures the ambient light upwards.

When the sensor is faulty, the system will turn on the low beams and position lights independently of the ambient light. The failure message will appear on the instrument panel display.



The failure indication will be displayed as long as the light switch **A** is turned to **AUT**.

If this occurs, we recommend you deactivate the automatic system and turn on the external lights manually if necessary.

Contact your **AUTHORIZED FERRARI DEALER** as soon as possible.

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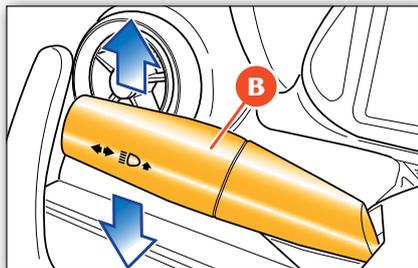
7

Turn indicators

When lever **B** is:

- moved up, the right-hand turn indicators are turned on;
- moved down, the left-hand turn indicators are turned on.

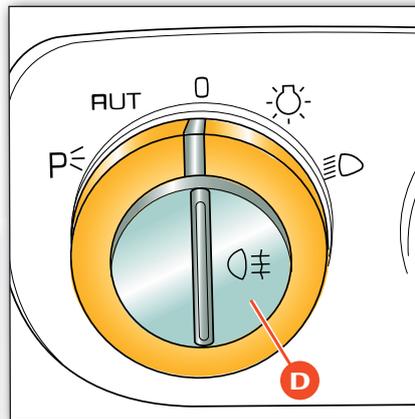
The relative warning light \leftrightarrow will illuminate on the instrument panel.



The lever returns to the neutral position automatically when the steering wheel is straightened.

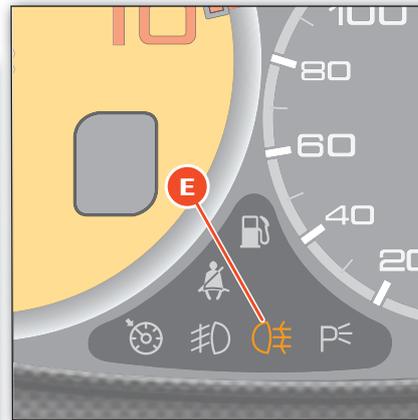
To indicate a temporary lane change, requiring only the slightest turn of the steering wheel, the lever can be moved without clicking it into position (non-permanent position).

Rear fog lights



The rear fog lights are turned on only if the high beams or low beams are on when button **D** is pressed; the appropriate warning light **E** on the instrument panel illuminates to indicate that they have been turned on.

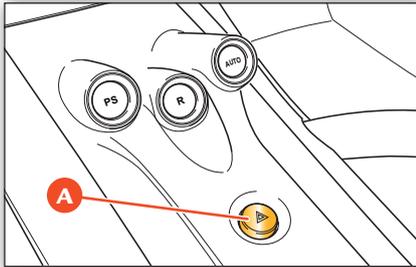
Use the rear fog lights only in poor visibility conditions.



Hazard warning lights

Press button **A** to turn on the hazard warning lights. All the turn indicators will start blinking; they will operate with the ignition key in any position.

When the hazard lights are on, the appropriate warning lights on the instrument panel and on the button flash.

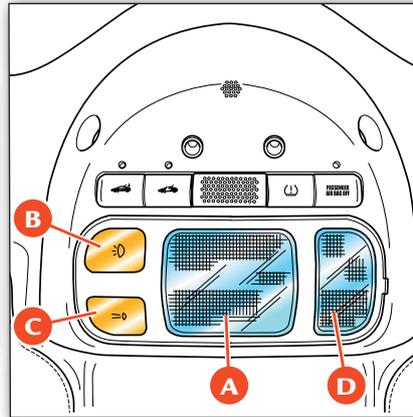


To turn them off, press the button again.

Dome light

When the doors are closed, the dome lights **A** on the roof panel can be turned on or off using switch **B**.

Switch **C** turns on the spotlight **D**.



The dome light activates automatically in the following conditions:

- when a door is opened, for approx. 3 minutes
- when all the doors are closed and the key is in position **0**, for approx. 10 seconds
- when the key is removed, for approx. 10 seconds
- when the doors are unlocked, for approx. 10 seconds
- when the fuel inertia switch is activated, for approx. 15 minutes.

The dome light deactivates automatically in the following conditions:

- after the preset activation time expires
- when the doors are closed and the key is in position **II**
- when the doors are locked
- when the fuel inertia switch is reactivated.

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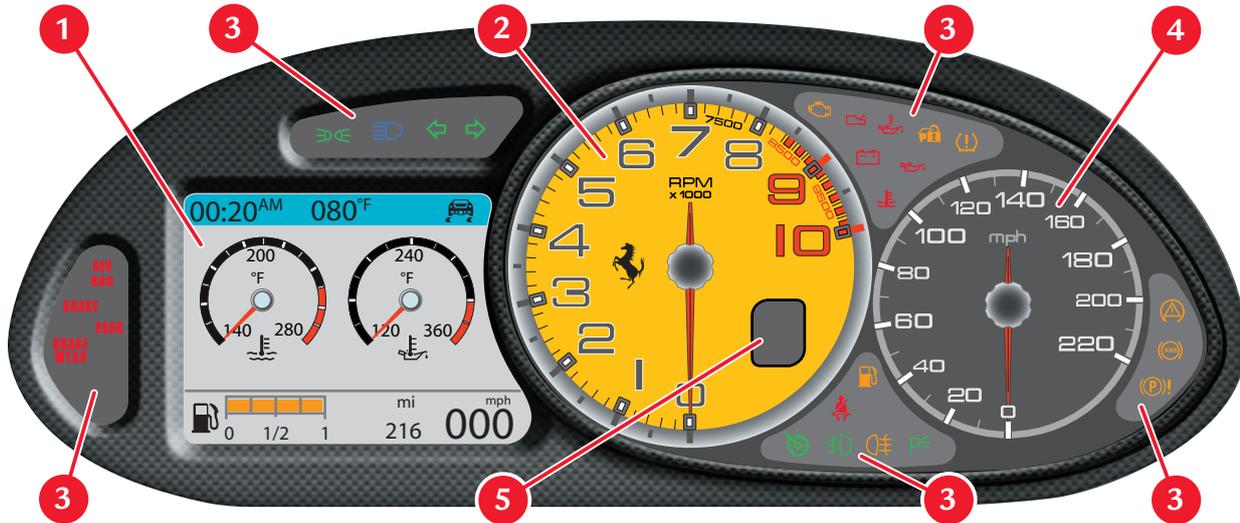
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Instruments and gauges



Instruments and gauges

- 1 TFT Display
- 2 Tachometer
- 3 Warning lights
- 4 Electronic speedometer
- 5 Gearbox display

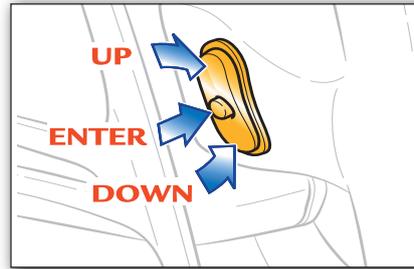
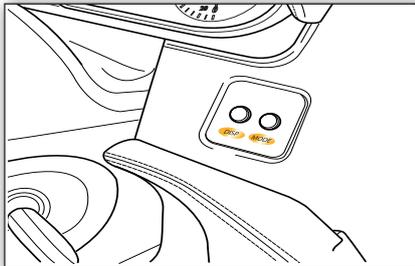
⚠ When using the TFT display and its controls, do not become distracted from driving the vehicle. When possible, perform these operations with the vehicle stationary.

TFT display

Located on the instrument panel, it performs the following functions:

- displays the control parameters;
- displays general information while driving;
- displays fault warnings.

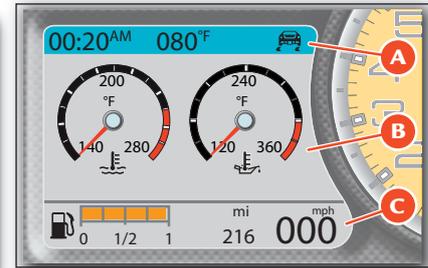
The driver can interact with the system by selecting the configuration and setting the parameters using the **DISP** and **MODE** buttons on the dashboard to the right of the steering wheel and the **UP**, **DOWN** and **ENTER** buttons located behind the steering wheel.



Every screen page consists of three display areas:

- A** clock, external temperature or the word “Manettino” (if speedometer repeater is not activated), selected driving mode (Manettino position)
- B** display of virtual control gauges, parking sensor screen page (if present), display of abnormal events/warnings (message text and special symbol, when available), display of dimming function
- C** fuel level gauge, total or trip odometer (TRIP A or B), speedometer repetition or external temperature.

Screen area **A** can be displayed with five different color options, based on the driving mode selected on the Manettino.



The screen areas **B** and **C** can be displayed with two color options: day-time mode (light background), or, as shown below, night-time mode (dark background).



Main screen pages

In area **B** the following main screen pages can be displayed:

- **SPORT**
- **Manettino**
- **RACE**
- **Status Car**
- **Performance**
- **TIRES**
- **TRIP A**
- **TRIP B** (if activated).

The “Manettino”, “RACE”, “Status Car” and “Performance” screen pages belong to the VRE (Virtual Race Engineer; see page 84) screen page group.

To select the main screen page you require, go to the MENU page by pressing the **MODE** button and then select the items “Display setup” and “Main screen” (see page 81).

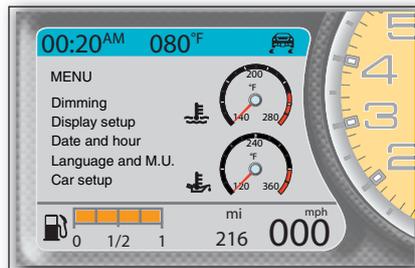
The screen pages can also be quickly displayed in timed mode by pressing the **DISP** button: each time the **DISP** button is pressed, the next screen page is displayed for a maximum of 10 seconds and then the screen page that was previously displayed reappears.

Display setting and configuration of vehicle parameters

 **Display setting and parameter configuration should be performed when the vehicle is stationary.**

MENU page

Display setting and configuration of the various vehicle parameters is possible using the MENU screen page that can be directly called up by pressing and quickly releasing the **MODE** button.



Navigation within the menu is on several levels; the first level offers a list of items through which the following parameters can be set or the following information can be displayed:

- **Dimming:** adjusts the instrument panel brightness level
- **Display setup:** configuration of display
- **Date and hour:** date and time setting
- **Language and M.U.:** language and unit of measurement setting
- **Car setup:** configuration of vehicle parameters
- **Service:** displays information on scheduled maintenance.

These items are the main menu functions. To scroll through the list of items, press the **UP** and **DOWN** buttons; to select the required function press **ENTER**.

Once the function has been selected, the individual subfunctions or parameters that can be activated are selected. To select them, use the **UP** and **DOWN** buttons and press the **ENTER** button to activate a subsection or activate the selected parameter.

Dimming

The day-time or night-time mode on the display depends on whether the position lights are on or not and on the twilight sensor which does not switch to the night-time mode if it detects sufficient light.

Both modes have eight brightness levels which can be set by selecting “Dimming” and pressing the **UP** and **DOWN** buttons.

To adjust the brightness level, you can also use the **UP** and **DOWN** buttons without accessing the MENU page: the first time one of the two buttons is pressed, the relative screen page is displayed. The next time the buttons are pressed, the brightness can be adjusted.

The adjustment made, which can be activated even when the vehicle is moving, can be seen immediately and does not affect the brightness of the warning lights on the panel.

The screen page disappears if it is not used for 5 seconds or when the **MODE** button is pressed and is replaced by the screen page that was previously displayed.

Display setup

Select “Display setup” to choose which main screen page you want to display. The list of screen pages that can be selected is displayed in this order: SPORT, Manettino, RACE, Status Car, Performance, TIRES, TRIP A, TRIP B (if activated).

The list of screen pages that can be selected varies according to the driving modes selected on the Manettino and the “Status Car” and “Performance” screen pages are only available in the positions RACE, CT OFF and CST OFF.

“VRE screens” can be used to directly select only the performance screen pages (see page 84).

Here you can also activate or deactivate the speedometer repetition, audio, telephone and satellite navigation displays and activate the TRIP B screen page.

Date and hour

“Date and hour”, in the “Display setup” section can be used to select what format the date (dd/mm/yy or mm/dd/yy) and the time (12h or 24h) are displayed in.

Language and units of measurement

“Language and M.U.” in the “Display setup” section can be used to select one of the following languages:

- English
- German
- Italian
- French
- Spanish

and two types of units of measurement for distance (km or miles), temperature (°C or °F) and pressure (bar or psi).

Vehicle setup

The parameters that can be changed are:

- Parking sensor: if front parking sensors are present, it activates or deactivates the “Stop&Go” function.
- Doors lock: it activates or deactivates the automatic door lock function when a speed of 12 mph (20 km/h) is reached.
- Doors unlock: it is used to select whether to unlock both doors or only the driver side door using the button on the center console.

- Speed limit: it activates the “Speed limit exceeded” message if the set speed limit is exceeded.
- Buzzer volume: it adjusts the volume of acoustic signals.
- Light sensor: it adjusts the sensing range of the twilight sensor.
- Rev. rep. on steer: it activates or deactivates the engine speed LED display on the steering wheel.
- Glove box key: it activates or deactivates the glove compartment opening key function.
- Equalization: it activates or deactivates the automatic equalization.

Service

When “Service” is selected, information on scheduled maintenance is displayed (for further information, refer to the “Maintenance” paragraph on page 176).

Operating logic of buttons

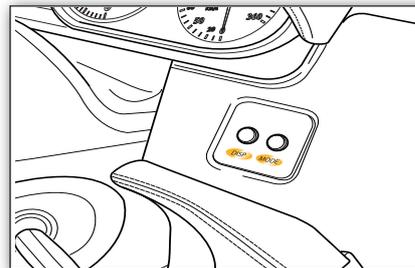
MODE button

When pressed and quickly released (less than 2 seconds):

- it displays the MENU page (minimized if vehicle speed exceeds 3 mph / 5 km/h)
- within a submenu: it takes you back to the previous level in the menu
- odometer flashing: it goes back to information that was previously displayed
- it exits the display mode for the various check phases at key-on
- it exits the fault warning display cycles (“ESCAPE” function).

When pressed and held down (more than 2 seconds):

- MENU page not active and **TRIP B** disabled: it resets **TRIP A**
- MENU page not active and **TRIP B** enabled: it selects the odometer shown on the display (total, A or B)
- MENU page active: it goes back to the last screen page displayed before **MODE** button was pressed.



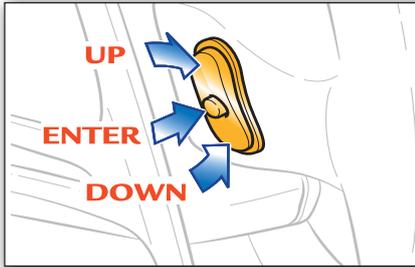
DISP (DISPLAY) button

The **DISP** button allows you to sequentially switch between main screen pages which are displayed in timed mode (10 seconds) in the following order:

- **SPORT**
- **Manettino**
- **RACE**
- **Status Car**
- **Performance**
- **TIRES**
- **TRIP A**
- **TRIP B.**

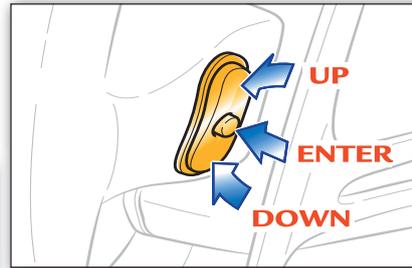
Each time the **DISP** button is pressed, the next main screen page is displayed.

After the last screen page, press the **DISP** button again to go back to the standard screen page, i.e., the last screen page selected.



UP/DOWN buttons

- set/adjust the functions on the MENU page
- MENU page not active: adjusts the instrument panel brightness level
- odometer flashing: selects the **TRIP** to reset
- **Auto** function (twilight sensor active): adjusts the sensing range of the sensor.



ENTER button

- MENU page not active: switches between the information displayed:
 - total odometer
 - **TRIP A** distance
 - **TRIP B** distance (if enabled)
- it confirms the selected function
- it confirms the setting/change
- it memorizes the confirmed modifications
- **TRIP A** is reset, when **TRIP B** is enabled, only after pressing the **MODE** button at length (**TRIP A** flashes).

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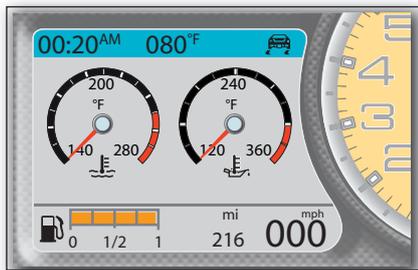
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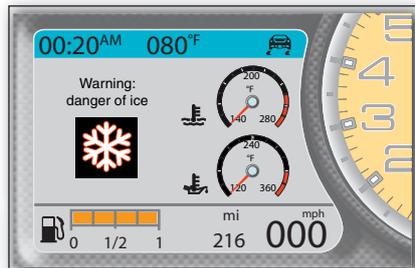
SPORT screen page

In addition to the shared parameters, the screen page shows the virtual control gauges, for:

- water temperature
- oil temperature.



If an event occurs that needs to be displayed as a symbol and/or special message when the SPORT screen page is displayed, the virtual gauges are minimized as in the following example.



In the event of priority level 1 or 2 malfunctions/events (see page 92), the symbol continues to be displayed in minimized form as shown below at the end of the display cycle (20 seconds) or when the **MODE** button with "ESCAPE" function is pressed.



VRE screen pages

In addition to its chronometer function, the Virtual Race Engineer (VRE) screen page group provides support for assessing vehicle status when on the track and can be used to intuitively understand the most suitable conditions for performance driving.

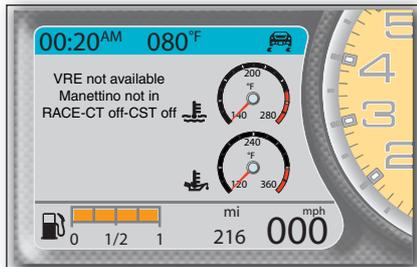
This group includes the "Manettino", "RACE", "Status Car" and "Performance" screen pages.

By selecting the special "VRE screens" item in the menu (see page 81), you can directly select only the VRE screen pages: when VRE ON screen pages are selected in the MENU page, a list with only the VRE screens is displayed whereas if you press the **DISP** button, you can select the desired VRE screen page in fixed mode (unlike when "VRE screens" is not selected and pressing the **DISP** button allows you to sequentially switch between screen pages in timed mode).

When the "VRE screens" item is selected, the "Manettino" and "RACE" screen pages can be called up irrespective of the driving mode the Manettino is set to.

The “Status Car” and “Performance” screen pages, on the other hand, can only be called up when the Manettino is set to RACE, CT OFF or CST OFF which have been developed especially for using the vehicle on track.

If the Manettino is set to Low-grip or SPORT mode when the “VRE screens” item is selected on the TFT display, the message “VRE not available. Manettino not in Race-CT off-CST off” is displayed for 5 seconds which prompts the driver to select one of these three driving modes to display all the VRE screen pages.



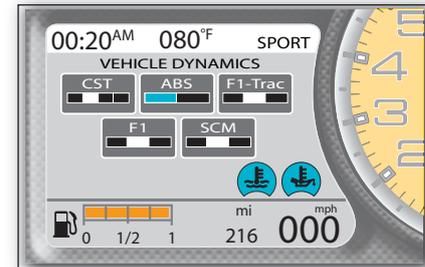
When the 5 seconds have elapsed or the **MODE** button with “ESCAPE” function has been pressed, the “Manettino” screen page is displayed or the RACE screen page if that was the one that was previously displayed.

The same message is also displayed when the driver sets the Manettino to Low-grip or SPORT when the “Status Car” or “Performance” screen pages are already displayed.

This message appears automatically at key-on if the Manettino is set to Low-grip or SPORT and the “Status Car” or “Performance” screen pages were selected at the previous key-off.

Manettino screen page

The “Manettino” screen page displays a list of parameters which can be configured using the Manettino driving mode control switch (see page 125) and indicates the configuration each one assumes in a specific driving mode.



The systems involved are the following:

- **F1-Trac**: traction control
- **F1**: F1 gearbox
- **CST**: stability and traction control
- **ABS**: anti-lock braking system
- **SCM**: magnetorheologically controlled suspension

⚠ RACE mode is only to be used on the race track

RACE screen page

The RACE screen page is used to time laps and memorize lap time if the vehicle is used on track.

Current LAP

indicates the time elapsed since the start of the chronometer

LAP time/best

indicates the time taken to complete the last best lap

LAP time/last

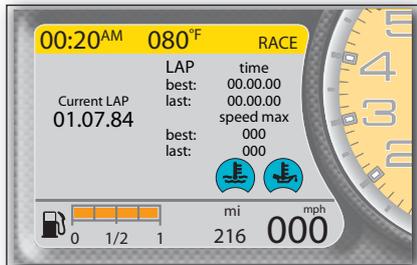
indicates the time taken to complete the last lap

speed max/best

indicates the maximum speed reached

speed max/last

indicates the maximum speed reached in the last lap



As well as this information, minimized virtual control gauges are also displayed without pointers or graduated scales, but only as black symbols on a background color (blue, green, red) that varies according to the temperature reached.

Oil temperature gauge:

- Blue = less than 176 °F (55 °C);
- Green = between 176 °F (55 °C) and 311 °F (155 °C);
- Red = greater than 311 °F (155 °C).

Water temperature gauge:

- Blue = less than 158 °F (70 °C);
- Green = between 158 °F (70 °C) and 257 °F (125 °C);
- Red = greater than 257 °F (125 °C).

When the RACE screen page is displayed and an event occurs that needs to be viewed, the display will appear as in the following example.



During display of the event/malfunction, the chronometer remains active and is viewed again at the end of the display cycle. In the event of priority level 0 malfunctions (see "TFT display symbols") the chronometer is deactivated.

The chronometer is also deactivated when the MENU page is displayed and when infotainment system (audio, telephone, satellite navigation) function repetition is activated on the display.

Each time the key is turned on, the chronometer is reset whereas the last valid Best Lap and Last Lap information is memorized.

When the RACE screen page is displayed, the functions of some buttons change.

The **ENTER** button is used to start the chronometer:

- when the chronometer is off, press the button to activate the Current Lap chronometer;
- when the chronometer is on, press the button to reset and restart the Current Lap and update the information about the previous laps.

The **DISP** button:

- stops the chronometer and updates the information on the previous laps (button pressed briefly);
- resets the chronometer and the information about the previous laps (button pressed at length).

Status Car screen page

The “Status Car” screen page is intended to help the user bring the vehicle to optimum performance when driving on high grip surfaces.

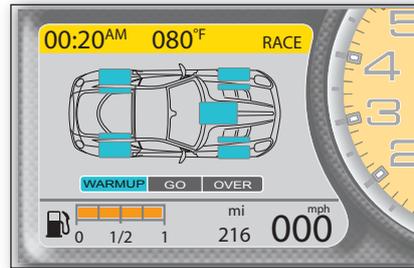
This is made possible by an algorithm that determines the thermal state of the main vehicle subsystems (tires, brakes and engine) in relation to the dynamics of

various parameters (lateral acceleration, speed, etc.).

The status of the vehicle is displayed concisely using three levels which are blue, green and red.

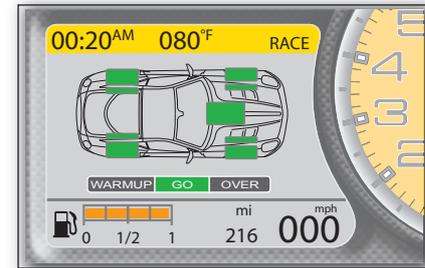
WARMUP

Warm-up stage for components and self-acquisition of control systems; during this stage, the vehicle should be driven so that it is taken to optimum conditions of use.



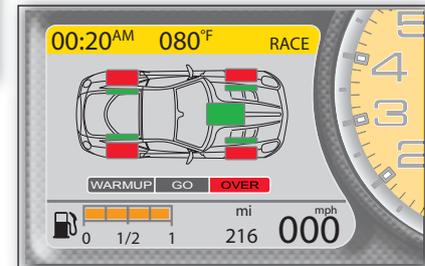
GO

The vehicle has completed the warm-up stage: all its subsystems have reached optimum conditions of use for performance driving.



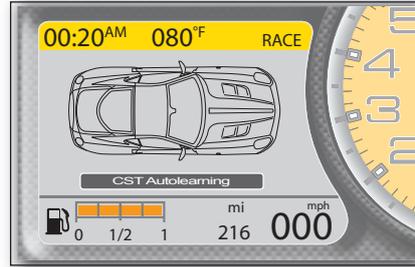
OVER

One or more systems have reached an overheating condition that may affect vehicle dynamics. Slowing down is therefore recommended to restore these systems to optimum conditions of use.

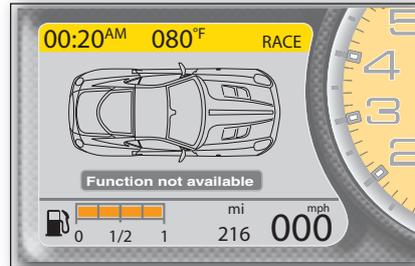


After each start, the CST stability and traction control system compensates for the tire rolling radius and detects the spare wheel. While this procedure is being performed, the Vehicle Status screen page indicates to the driver that system self-acquisition is in progress by displaying the message “CST autolearning”.

- ⚠ Use of the vehicle on the race track: after each start, cover the first straight stretch of the track (at least 0.3 mi/500 meters) at a constant speed so that the CST stability and traction control system can calculate exactly the grip available and the rolling radius of the tires (the calculation is reset every time the engine stops).
- If this procedure is not followed, system performance may be reduced.

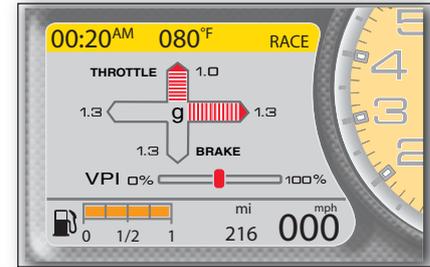


If one or more signals related to the performance parameters used to calculate the thermal state of the subsystems (lateral acceleration, speed, etc.) are not valid, the Status Car screen page indicates to the driver that the function is not available by displaying the message “Function not available”.



Performance screen page

The “Performance” screen page graphically displays the longitudinal and lateral acceleration parameters and the vehicle performance index (VPI). This last value, shown on a scale of 0% to 100%, determines the performance level reached by the vehicle which is based on the driving mode selected on the Manettino as well as the acceleration values.



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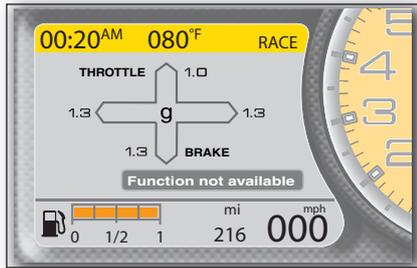
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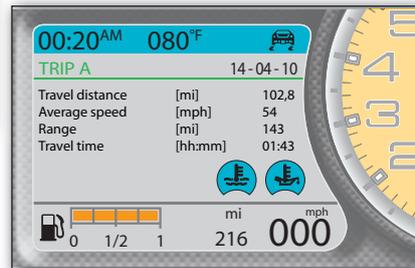
If one or more of the signals for the performance parameters are not valid, the Performance screen page indicates to the driver that the function is not available by displaying the message “Function not available”.



TRIP A and TRIP B screen pages

In addition to the shared parameters, the screen page shows:

- the virtual water and oil temperature gauges (minimized)
- the date
- the travel distance
- the average speed
- the range
- the travel time.



If the driver selects TRIP B as main screen page and then deselects TRIP B from the Menu page, the default screen page will be automatically set as main page.

When the TRIP A or B screen page is displayed and an event occurs that needs to be viewed, the display will appear as in the following example.

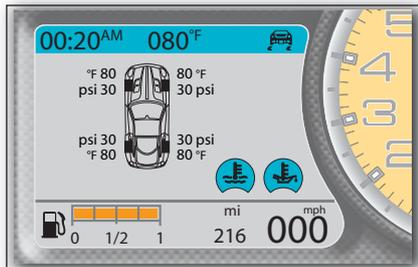


If malfunctions/events occur and a multifunction symbol needs to be displayed, the symbol will be shown, at the end of the display cycle, in minimized form in the bottom left of area **B**.

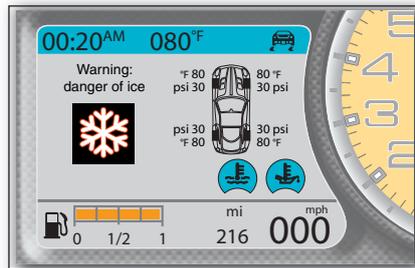
TIRES screen page

In addition to the shared parameters, the screen page shows:

- the virtual water and oil temperature gauges (minimized)
- the vehicle symbol with the pressure and temperature values for each tire
- the multifunction symbol for malfunctions (if any).



When the TIRES screen page is displayed and an event occurs that needs to be viewed, the display will appear as in the following example.



For further information, please see the “Tire Pressure and Temperature Monitoring System” in the “Safety” section.

Parameters shared by all the configurations

Odometer

The odometer is always viewed on the TFT display (in area **C**): by pressing the **ENTER** button, the driver can select whether to view the total odometer **1** or one of the two trip odometers **2**.

To reset the trip odometers, press and hold the **MODE** button. If **TRIP B** is not enabled, **TRIP A** is automatically reset, whereas if it is enabled, the active odometer flashes. Use the **UP** and **DOWN** buttons to select the desired **TRIP**, and press **ENTER** to reset the flashing odometer.

When the odometer is flashing, to return to the previous screen page press the **MODE** button briefly or wait 10 seconds.

Fuel level gauge

The information is permanently displayed in area **C**.

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Speedometer

The information is displayed in area **C**.

If the speedometer display is disabled, the outside temperature will be viewed in its place.

Clock

The clock is always displayed in area **A**, in all configurations, and can be viewed in the “24h” or “12h” format.

Outside temperature gauge

The information is displayed in area **A** if the speedometer display (area **C**) is enabled.

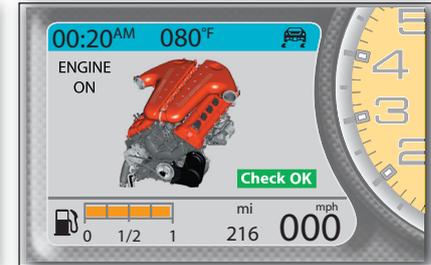
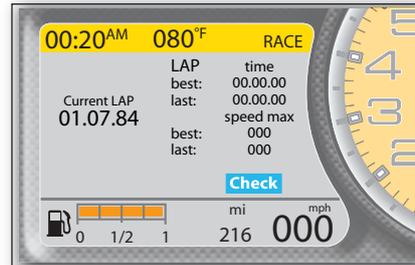
The information is displayed in area **C** if the speedometer display is disabled. In this case, the word “Manettino” will be displayed in area **A**.

Displayed information at key-on

When the key is turned on, the check procedure is started and the message “**Check**” will be displayed in area **B**, on a pale blue background. The virtual water and oil temperature gauges (minimized) that are normally displayed in the main screen pages will not be viewed during the check stage.

Once the check procedure is successfully completed, the word Check will be replaced by “**Check OK**” on a green background.

When the engine is started, regardless of the main screen page set, the words “**ENGINE ON**” will be displayed.



List of TFT display symbols

Priority level 0 (Extremely critical malfunction): remains displayed for an unlimited period of time, until the problem is corrected.

Priority level 1/Priority level 2 (Critical malfunction/Non-critical malfunction): remains displayed for 20 seconds in the middle of area **B** and is then minimized. It remains displayed (minimized) at the bottom left of area **B** until the problem is corrected.



Alarm system failure

Indicates a fault in the alarm system (priority level 1).

The system is not programmed (priority level 2).

Contact your AUTHORIZED FERRARI DEALER.



Low fuel

Indicates that the fuel level is too low (priority level 2).



Battery conditioner connected

When the instrument panel is on, indicates that the battery conditioner is connected (priority level 0).



Fuel inertia switch

Indicates activation of the fuel inertia switch following an accident and the resulting cut-out of the fuel supply (priority level 0).



Alternator failure

Indicates an alternator failure (priority level 1).



Low windshield washer fluid level

Indicates a low level of washer fluid in the windshield washer tank (priority level 2).



Oil temperature

Indicates that the oil temperature is too high (priority level 0).

Turn off the engine and contact your AUTHORIZED FERRARI DEALER.



Oil pressure

Indicates that the oil pressure is too low (priority level 0).

Turn off the engine and contact your AUTHORIZED FERRARI DEALER.



Engine coolant temperature

Indicates that the engine coolant temperature is too high (priority level 0).

Turn off the engine and contact your AUTHORIZED FERRARI DEALER.



On board diagnostic system (OBD)

Indicates an engine diagnostic system and emission control system failure (priority level 0).



Generic failure

Indicates a generic failure (priority level 0).

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External lights failure

Indicates a system fault or blowing of a bulb in the position, turn indicator or rear fog lights (priority level 2).



License plate lights failure

Indicates a system failure or blowing of the license plate light bulb (priority level 2).



Twilight sensor failure

Indicates a twilight sensor failure (priority level 2).



Catalytic converter temperature

Indicates that the catalytic converter temperature is very high: slow down until the warning light goes off (priority level 1).

Indicates that the catalytic converter temperature is too high: stop the vehicle and turn off the engine so that the exhaust system cools down (see page 158). After approximately 5 minutes, restart the engine and continue driving normally (priority level 0).

Indicates a failure of the catalytic converter temperature sensor (priority level 0).

Contact your AUTHORIZED
FERRARI DEALER.



Stop light failure

Indicates a system failure or blowing of the STOP light bulb (priority level 2).



Seat heating

Indicates that heated seat function is enabled (remains displayed for 5 seconds).



Power steering failure

Indicates that the power steering system is inefficient (priority level 2).

Contact your AUTHORIZED
FERRARI DEALER.



Fuel door open

Indicates that the fuel door is open (acoustic signal when the vehicle is moving).



Low F1 gearbox oil level

The red icon indicates that the F1 gearbox oil level is too low (priority level 0).

Contact your AUTHORIZED
FERRARI DEALER.



Doors and front/rear lids open

The symbol, which is minimized, indicates that one or more doors and/or lids are open (acoustic signal when the vehicle is moving).



ABS

Indicates an ABS system failure (priority level 1).

The standard braking system is still functioning.

Contact your AUTHORIZED FERRARI DEALER.



ASR + CST on

Indicates that the ASR and CST systems are active (priority level 1).



ASR + CST off

Indicates that ASR and CST systems have been disabled (priority 1).

Displayed together with message: CST off.



ASR/CST failure

Indicates an ASR/CST system failure (priority level 1).

⚠ Stop the vehicle avoiding sharp braking. Stop driving and contact your AUTHORIZED FERRARI DEALER immediately.

⚠ The vehicle can still be driven at low speed (max. 25 mph / 40 km/h) to leave the road.



CCM2 brake disc worn

Indicates that the carbon ceramic brake discs are worn (priority level 2).

Contact your AUTHORIZED FERRARI DEALER.



Tire pressure

Warning light connected with the tire pressure monitoring system. (priority level 0/2)



Airbag system failure

Indicates a system failure (priority level 0).

Contact your AUTHORIZED FERRARI DEALER.

Indicates that the Airbag test cycle has not been completed. At the same time, the Airbag warning light flashes (priority level 0).



Passenger-side seat belt not fastened

Indicates that the passenger-side seat belt is not fastened (priority level 0).



Speed limit exceeded

Indicates that the speed set by the driver has been exceeded (priority level 2), the figure shown indicates the set speed.



Brake malfunction

Indicates that the brake fluid level is low or, if the ABS control warning light illuminates at the same time, it indicates that there is an EBD system failure (priority level 0)



Rain sensor failure

Indicates a rain sensor failure (priority level 2).



Suspension control system failure

Indicates a malfunction in the suspension control system (priority level 2).

Contact your AUTHORIZED
FERRARI DEALER.



Manettino failure

Indicates a Manettino failure (priority level 1).



Parking sensor failure

Indicates that the parking sensor system is faulty (for vehicles equipped with this system) (priority level 2).



Brake pad wear

Indicates that the brake pads are worn (priority level 2).

Contact your AUTHORIZED
FERRARI DEALER to have the
brake pads replaced.



Ice hazard

Indicates that the outside temperature is 38 °F (3 °C) or lower, highlighting the risk of icy road surfaces. Drive carefully in these conditions and slow down since tire grip may be significantly reduced.



In this condition, activate the “Low-grip” driving mode.



Gearbox failure

Indicates a system failure (priority level 1).

Contact your AUTHORIZED
FERRARI DEALER.



Scheduled maintenance

Depending on the associated message, this indicates that service schedule deadlines are either approaching or due.

Contact your AUTHORIZED
FERRARI DEALER upon reaching
this deadline.



Radio system information

Refer to the “Infotainment” Operating Manual.



CD-Changer information

Refer to the “Infotainment” Operating Manual.



CD, MP3 CD information

Refer to the “Infotainment” Operating Manual.



Flashcard information

Refer to the “Infotainment” Operating Manual.



Telephone

Refer to the “Infotainment” Operating Manual.

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Electronic speedometer

It indicates the vehicle speed.



Tachometer

Indicated engine speed in RPM. Avoid engine speeds in the red sector.



If such speed rates are exceeded, the ignition/injection ECU will temporarily cut-off the fuel supply.

Gearbox display

It is incorporated in the tachometer. With the ignition key in position II, it displays the gear engaged.

N	Neutral
R	Reverse
1	1 st gear
2	2 nd gear
3	3 rd gear
4	4 th gear
5	5 th gear
6	6 th gear
Auto	Automatic gearbox mode
Auto ▼	Auto easy exit gearbox mode

When the symbol “-” is displayed, it indicates a fault in the gearbox.

Please contact your **AUTHORIZED FERRARI DEALER** to have the necessary checks performed.

Warning lights

In addition to diagnosis performed before ignition, the warning lights may illuminate in the following cases.

(*) associated with a TFT display symbol

If a warning light indicating a failure illuminate while driving, contact your AUTHORIZED FERRARI DEALER to have the necessary checks performed.

ABS (*)

While driving, it illuminates to indicate a failure in the ABS system.

The standard braking system is still functioning.

Contact your AUTHORIZED FERRARI DEALER.

BRAKE Brake failure (*)

Indicates that the brake fluid level in the tank is too low.

 Stop the vehicle avoiding sharp braking. Do not continue to drive, check the fluid level in the tank and contact your AUTHORIZED FERRARI DEALER immediately.

ASR/CST failure (*)

Indicates an ASR/CST system failure.

 Stop the vehicle avoiding sharp braking. Stop driving and contact your AUTHORIZED FERRARI DEALER immediately.

 The vehicle can still be driven at low speed (max. 25 mph / 40 km/h) to leave the road.

BRAKE EBD failure (*)

 When the warning lights in the figure come on simultaneously.

 Danger of rear wheels locking and risk of spinning.
Stop the vehicle avoiding sharp braking. Stop driving and contact your AUTHORIZED FERRARI DEALER immediately.

 The vehicle can still be driven at low speed (max. 25 mph - 40 km/h) to leave the road.

PARK Parking brake

Indicates that the parking brake is applied.

Alternator failure (*)

If the recharging system is faulty. When the battery is insufficiently charged or overcharged (flashing).



Brake pad wear (*)

Indicates that the brake pads are worn.

Contact your AUTHORIZED FERRARI DEALER to have the brake pads replaced.



Oil pressure (*)

Indicates that the engine oil pressure is too low.

Turn off the engine immediately and contact your AUTHORIZED FERRARI DEALER.

Indicates a malfunction of the specific sensor.



Oil temperature (*)

Indicates that engine oil temperature is too high.

Turn off the engine immediately and contact your AUTHORIZED FERRARI DEALER.

Indicates a malfunction of the specific sensor.



Engine coolant temperature (*)

Indicates that engine coolant temperature is too high.

Turn off the engine immediately and contact your AUTHORIZED FERRARI DEALER.



Airbag system failure (*)

While driving, it indicates a malfunction in the airbag system and/or in the seat belt pretensioners.

If the warning light does not illuminate for the self-check cycle or if it illuminates while driving, contact your AUTHORIZED FERRARI DEALER immediately.



F1 gearbox failure (*)

- Warning light permanently on accompanied by an acoustic alarm: when an operating error occurs in the F1 gearbox.

If the failure still permits it, leave the road and contact your AUTHORIZED FERRARI DEALER.

- Flashing: low system pressure.



Driver-side seat belt not fastened

When the ignition key is in position II, it indicates that the driver's seat belt is not fastened.



On board diagnostic system (OBD) (*)

Indicates a malfunction in the emission control system and in the ignition/injection system.

After turning the ignition key to position II, it remains on for a self-check for a few seconds after the engine has started.



Low fuel (*)

Indicates that only 20 litres of fuel are left in the tank or that the level gauge is malfunctioning.



Right turn indicator

When the right turn indicators are activated.



Left turn indicator

When the left turn indicator is activated.

 **Hazard warning lights**
Simultaneous flashing of the right and left turn indicator warning lights indicate that the hazard warning lights have been activated.

 **Position lights**
When the position lights or low beams are turned on.

 **High beams**
When the high beams are turned on.
When the high beams are used to flash.

 **Parking lights**
When the parking lights are on.

 **Rear fog lights**
When the rear fog lights are turned on.

 **Alarm system failure (*)**
While driving, it illuminates to indicate a failure in the alarm system.

Contact your AUTHORIZED
FERRARI DEALER.

 **ASR + CST disabled**
ASR/CST system activation

The warning light indicates that the ASR and CST systems are deactivated.

When flashing, it indicates that the ASR/CST system has been activated.

 **Tire pressure and temperature monitoring system**

Works in conjunction with the tire pressure and temperature monitoring system (see page 58).

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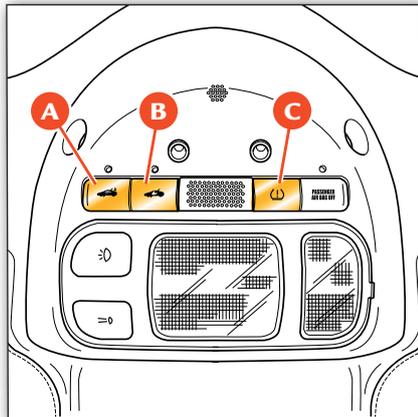
7

Roof panel controls

Deactivating the alarm system motion sensors

Pressing button **A** deactivates the motion sensing feature of the alarm system.

When this feature is deactivated, the LED on the button flashes for about 3 seconds and then turns off.



Deactivating the anti-lift alarm system

Pressing button **B** deactivates the anti-lift alarm system

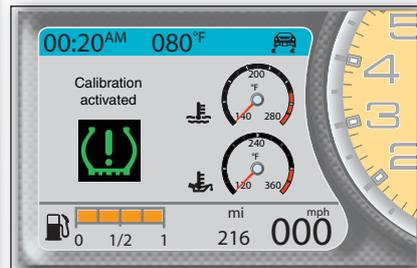
When this feature is deactivated, the LED on the button flashes for about 3 seconds and then turns off.

TPMS calibration button

To calibrate the system, when the key is in position **II**, press button **C** until the message “Calibration activated” appears on the TFT display.

The system will take a maximum of 20 minutes to complete the calibration procedure with the vehicle in motion.

For further information, refer to the “Tire pressure and temperature monitoring system - TPMS” paragraph on page 58.



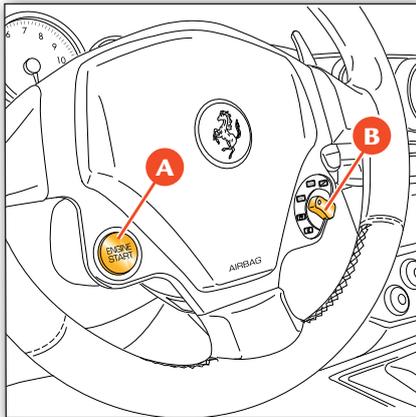
Controls on the steering wheel

Start button

The **ENGINE START** button **A** is used to start the engine. When the engine has started, release the **ENGINE START** button.

Do not hold the **ENGINE START** button down for a long time.

For more information on starting the engine, see page 108.



“Manettino” driving mode control switch

The driver can select the desired driving mode by using the “Manettino” **B**.

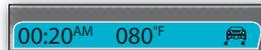
The driving mode selected does not exempt the driver from complying with the rules of safe driving.

In the event of a failure of one of the onboard systems, signalled by the appropriate symbol on the TFT display (see page 95), the Manettino moves to a “recovery” mode, but allows the vehicle to be driven. In these cases, contact your **AUTHORIZED FERRARI DEALER**.

Low-grip mode

This is the maximum safety driving mode. Recommended in low grip conditions.

Activation is signalled by the **Low Grip** symbol in the dedicated area of the TFT display.



SPORT mode

This is the ideal setting for vehicle performance recommended for everyday driving.

Activation is signalled by the **SPORT** symbol in the dedicated area of the TFT display.



RACE mode

This mode offers maximum performance and stability in high grip conditions and is recommended only when using the vehicle on a track.

Activation is signalled by the **RACE** symbol in the dedicated area of the TFT display.



CT OFF mode (**CT**)

⚠ This setting is to be used exclusively by experienced drivers and only on the racing track

When this mode is selected, F1-Trac traction control system is disabled whereas stability control remains active.

Activation is signalled by the **CT** symbol in the dedicated area of the TFT display.



CST OFF mode (**CST**)

⚠ This setting is to be used exclusively by experienced drivers and only on the racing track

In this mode, the **CST** system (always active when the engine is started) is deactivated: it allows the driver complete freedom and control of the vehicle for track use.

Activation is signalled by the **CST** symbol in the dedicated area of the TFT display.



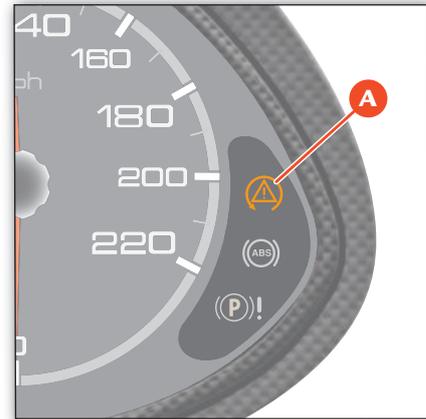
When the **CST** system is deactivated the warning light **A** illuminates on the instrument panel and the symbol is displayed for 5 seconds on the TFT display accompanied by the message “CST off”. In the dedicated area on the display the symbol **CST** is shown

An acoustic signal will warn the driver that the driving mode has been changed.

When the **CST** system is active, the warning light **A** starts flashing on the instrument panel and the appropriate symbol appears on the TFT display accompanied by the message “ASR/CST on”.

In low- to medium-grip conditions (e.g., wet, icy, sandy roads), do not deactivate the **CST** system.

When the **CST** system is active and the amber warning light illuminates, it means that there is a fault in one of the **CST** system components.



Contact your AUTHORIZED FERRARI DEALER.

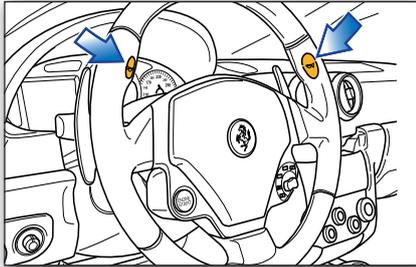
Every time the engine is then started, the **CST** system will reactivate.

The **CST** system reactivates automatically, even in **CST** mode, when the brake pedal is depressed.

For further information on the driving modes that can be selected, refer to the paragraph “Driving using the driving mode control switch” on page 125.

Horn control

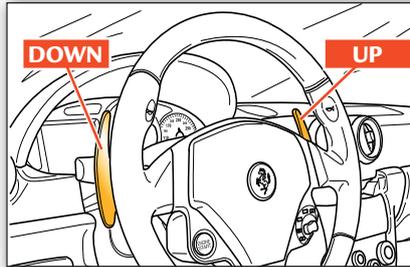
The horn sounds when you press on the horn symbol on the steering wheel rim.



“UP” shift paddle

Pull the right-hand **UP** paddle towards the steering wheel to shift gears up.

For use, see “Starting and driving the vehicle” on page 107.



“DOWN” shift paddle

Pull the left-hand **DOWN** paddle towards the steering wheel to shift gears down.

For use, see “Starting and driving the vehicle” on page 107.

Engine RPM LEDs

The five LEDs on the steering wheel upper rim light up in sequence and inform the driver that the maximum engine RPM has been reached for gearshifting.



When 6,000 RPM is reached, the first LED illuminates; the other LEDs illuminate as speed increases by 500 RPM until the maximum speed of 8,400 RPM is reached.

The LEDs on the steering wheel can be deactivated using the MENU page on the TFT display: call up the MENU page, select the items “Car setup” and “Rev. rep. on steer” and then select OFF.

Windshield washer/wipers and headlight washer lever

Windshield wipers

The windshield wipers and washer work only with the ignition key in position II.

The lever **A** has 5 settings:

OFF Windshield wipers stationary.

AUTO Automatic operation: the rain sensor adjusts the windshield wiper timing to the intensity of the rain.

1 Slow continuous operation (lever pushed down to second click position).

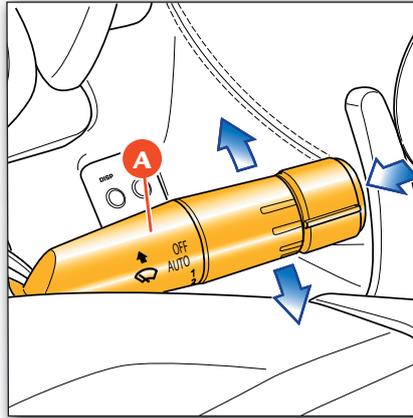
2 Fast continuous operation (lever pushed down to third click position).

Lever up Fast temporary operation (automatic return).

Windshield washer

This is activated by pulling lever **A** towards the steering wheel (automatic return).

When the windshield washer is activated, the windshield wiper starts automatically.



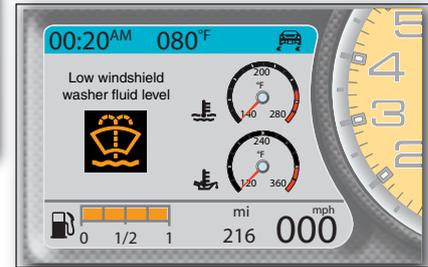
Releasing the lever stops the jet of fluid while the blades continue to wipe for a short time.

⚠ Do not start the windshield washer during the cold months until the windshield has warmed up. If it has not warmed up, the liquid could freeze on the glass and interfere with the visibility.

Headlight washer

The headlight washer is activated automatically when the windshield washer is operated and the low beams are on.

The headlight washer and windshield washer share the same fluid tank: a low fluid level is indicated by the appropriate symbol on the TFT display.



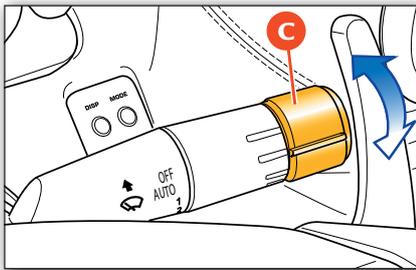
Rain sensor

The rain sensor is designed to automatically adjust the windshield wiper timing to the intensity of the rain during intermittent operation.

All functions controlled by the right-hand lever are unaffected.

The rain sensor automatically activates when the right-hand lever is moved to **AUTO** and it has a range of adjustment which runs from “wiper stationary” (when the windshield is dry) to “fast continuous operation” (with heavy rain).

To regulate the frequency of intermittent operation, with the lever set to **AUTO**, turn the control **C**.



Turning the control clockwise, intermittent operation varies from a maximum (fast intermittent operation) to a minimum (slow intermittent operation).

The rain sensor function is reset by turning the ignition switch to position **0**, and also by leaving the right-hand lever in position **AUTO**. To reactivate it, turn the control to **OFF** and then again to **AUTO**.

⚠ Before cleaning the front windshield (for example in service stations) make sure the rain sensor is deactivated or that the key is in position 0. The rain sensor must also be deactivated when washing the vehicle by hand or in automatic car washes.

In case of ice or snow on the front windshield, do not activate the rain sensor to avoid damaging the wiper motor and/or blades.

Rain sensor failure

In the event of a malfunction occurring when the rain sensor is active, the wipers will be set to intermittent operation and the sensing range will be set by the driver, whether there is rain on the windshield or not. In this case, we recommend that you deactivate the rain sensor and turn on the wipers, if necessary, in continuous mode.

If the rain sensor should malfunction, contact your **AUTHORIZED FERRARI DEALER** as soon as possible.

Driving the vehicle

Breaking-in period

The latest manufacturing techniques have allowed us to achieve high precision and accuracy levels in the construction and assembly of components. Nonetheless, the vehicle's moving parts need to be broken in, basically during the first hours of driving the vehicle.

Engine and transmission

Avoid exceeding 5,000 RPM for the first 620 mi. (1,000 km).

After starting, do not exceed 4,000 RPM until the engine has warmed up (oil temperature: 149-158 °F/65-70 °C).

Do not let the engine run at a constantly high speed for a prolonged time.



BEFORE YOU DRIVE

Check that the seat belts are fastened

Check that the doors are closed

Check that the seat is properly adjusted

Check the rear and side view mirror adjustment.

Before a trip

Preliminary checks

Check the following at regular intervals and always before long trips:

- tire pressure and condition
- levels of fluids and lubricants
- condition of the windshield wiper blades
- proper functioning of the warning lights and external lights.

In any case, it is advisable to perform these checks at least every 620 mi. (1,000 km), and to always comply with the maintenance schedule.

It is also advisable to:

- clean the glass covers of the external lights and all the glass surfaces
- properly adjust the mirrors, steering wheel, seats and seat belts.

Refilling



Use unleaded fuel only!

Using leaded fuel will permanently damage the catalytic converters.

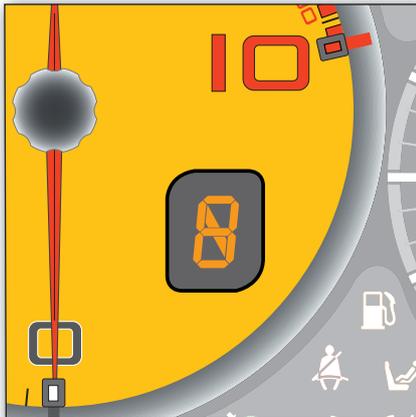
For specifications and quantities of lubricants and fluids, refer to the “Recommended lubricants and fluids” table on page 30.

Starting and driving the vehicle

System start-up

When the ignition key is turned to position II the gearbox display and all its segments, as well as the relative failure warning light turn on. The warning light will turn off if no problems are detected within a few seconds.

The gear currently engaged will remain highlighted on the display.



When the driver-side door is opened, the system pump may activate for several seconds. This function allows the system to be ready for operation when the ignition key is inserted.

The failure warning light may also flash for a short time (10 seconds) and then turn off: the system completes the “start-up” phase and will then function correctly. Avoid entering any commands in the system during this stage.

⚠ If the failure warning light continues flashing without going off, turn off the system and restart. If the failure persists, contact your AUTHORIZED FERRARI DEALER to have the necessary checks performed.

If the warning remains on, it means that there is a system failure. This condition will also be indicated by an acoustic alarm when the ignition key is turned to position II.

Contact your AUTHORIZED FERRARI DEALER to have the malfunction identified and repaired.

Operation with the engine off

The default setting for the F1 gearbox is always “Auto easy exit” mode.

Every time the vehicle is started, the F1 gearbox is in “Auto easy exit” mode unless the vehicle was in “Auto” mode (page 113) when the engine was turned off.

To exit the “Auto easy exit” mode, use one of the two **UP** and **DOWN** paddles (while the vehicle is moving) or press the **AUTO** button on the center console.

Once the “System starting” stage has been completed, the gear engaged will appear on the gearbox display:

N (Neutral)

R (Reverse gear)

1 (1st gear)

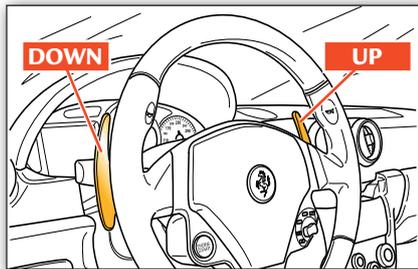
2 (2nd gear), etc.

If the indication flashes (this may also occur in **N**), the gear is not properly engaged or disengaged. Request **N** and then the desired gear.

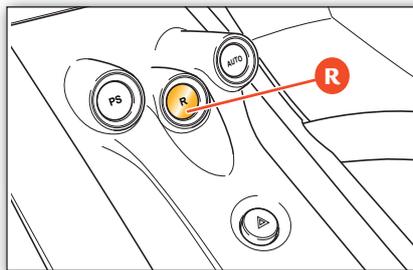
⚠ If a horizontal dash appears on the display, there is a system failure.

When the engine is turned off, 1st gear, reverse gear **R** and neutral **N** can be engaged. Holding the brake pedal depressed during the request, proceed as follows:

N: pull both paddles behind the steering wheel.



R: press button **R** on the center console.
1st gear: pull the **UP** lever towards the steering wheel.



⚠ Hold button **R** down until the letter **R** appears on the gearbox display.

Immediately release the **UP** and **DOWN** paddles and button **R** as soon as the engaged gear appears on the gearbox display; a prolonged maneuver will cause the failure warning light to illuminate (see page 98) and trigger the buzzer.

Do not operate the system with the engine off to prevent the battery from discharging.

Also avoid unnecessary gearshifting when the engine is off, in order to prevent the system pump from overheating.

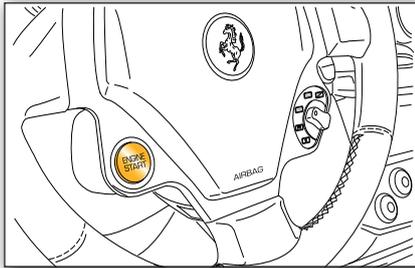
If the engine compartment lid is open or not properly closed, none of the gears can be engaged.

When the vehicle is stationary, with the driver-side door open or not properly closed and the brake pedal released, the system disengages the gear engaged after approximately two seconds.

Starting and warming up the engine

- Ensure that the parking brake is engaged and that the doors are closed.
- Hold the brake pedal down when starting the engine.
- Do not push the accelerator pedal.
- Turn the ignition key to position **II** and wait until the words **Check OK** are viewed on the TFT display. If the words **Check OK** do not appear, turn the key back to position **0**, wait a few seconds and repeat the procedure.

- The vehicle always starts in “Auto easy exit” mode unless it was turned off with the gearbox in “Auto” mode.
- Press the **ENGINE START** button and release it as soon as the engine starts.



- After the engine has started, the words **ENGINE ON** will be displayed.

Do not hold the **ENGINE START** button down for a long time.

If the engine does not start, turn the key back to position **0** and wait until the gearbox display turns off before repeating the procedure.

⚠ Hold the brake pedal down while starting the engine.

If the engine fails to start after several attempts, contact your **AUTHORIZED FERRARI DEALER**.

Do not run the engine at high speed until the engine oil temperature has reached at least 149-158 °F (65-70 °C), approximately.

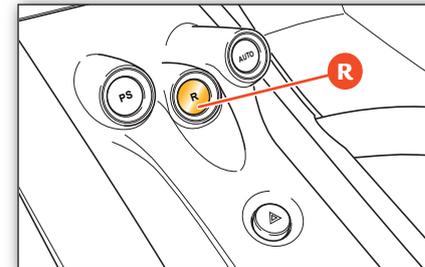
Starting the vehicle

With the engine started, the vehicle stationary and the brake pedal pressed, pull the right-hand **UP** paddle towards the steering wheel to engage **1st** gear.

⚠ Use 1st gear for parking and hill starts.

Release the brake pedal and press the accelerator to start off.

As soon as a gearshift is requested (with the vehicle in motion), by using the **UP** or **DOWN** paddles, the system will exit the “Auto easy exit” mode.



With the engine on and the vehicle stationary, you can shift directly from **1st** to **R** by pressing button **R** on the center console, and from reverse to **1st** gear by pulling the **UP** paddle towards the steering wheel.

When reverse gear is engaged, an acoustic safety signal beeps intermittently as long as **R** is engaged.

If the system automatically engages 2nd gear when shifting from **R** to 1st gear, jamming has occurred on 1st gear. Therefore, this is not a malfunction, as it falls within the system operation logic.

For the same reason, when shifting from 1st gear to **R**, the system will automatically engage **N** if the gear has jammed.

During prolonged stops with the engine running, it is advisable to keep the gearshift in **N**.

On downhill stretches, if you allow the vehicle to move forward in **N**, when an **UP-shift** is requested, the system will engage a gear in relation to the vehicle speed.

For safety reasons, the system activates the buzzer and automatically shifts to **N** when, with the vehicle stationary, the engine running and a gear engaged:

- the brake or the accelerator pedal is not depressed for more than 50 seconds
- the brake pedal is depressed for more than 10 minutes

- the door is opened without depressing the brake or the accelerator pedal
- the engine compartment lid is opened.

 **The buzzer may also sound to warn the driver that the clutch is starting to overheat. This may occur if you use the accelerator pedal when the vehicle is stationary on a hill or during the “pick-up” maneuver.**

In these cases, you must release the accelerator pedal and only use the brake pedal to keep the vehicle stationary or, where possible, start off immediately.

Important

- When the vehicle is stationary with a gear engaged, always hold the brake pedal pressed until you are ready to move.
- Do not “rev the engine” using the accelerator pedal to start off.
- Shift to reverse only when the vehicle has come to a complete stop and keeping the brake pedal depressed.

If the vehicle is stopped on an uphill stretch, do not use the accelerator pedal to keep it stationary. Use the brake and press the accelerator pedal only when ready to move.

If the accelerator pedal is fully depressed very quickly when the **CST** system is off, the vehicle will have a “performance” start with spinning of the driving wheels, even in good grip conditions.

Gearshifting

UP-shifting

Use the right-hand **UP** lever, even without releasing the accelerator pedal.

An **UP-shift** request will not be accepted if engagement of the requested gear would force the engine to run at too low RPM (underrevving) or if an **UP-shift** is already in progress due to engine overrevving. Gearshifting will be increasingly faster as the performance requested by the driver increases, i.e., as both the engine RPM and the travel of the accelerator pedal increase.

In any event, it is advisable to:

- shift gears without releasing the accelerator pedal if it is depressed

- wait until gearshifting has been completed before requesting the next shift and avoid a rapid sequence of multiple requests.

UP-shifting due to engine overrevving

The system “automatically” engages a higher gear if the accelerator pedal is pressed and the engine approaches the “runaway speed rate” (overrevving).

This will not occur when the system is in “RACE”, “CT OFF” and “CST OFF” driving mode.

DOWN-shifting

Use the left-hand **DOWN** lever, even without releasing the accelerator pedal.

A **DOWN-shift** request is not accepted if engagement of the requested gear would force the engine beyond a certain RPM or if a **DOWN-shift** is already in progress due to a too low engine RPM.

In any event, it is advisable to:

- shift gears without releasing the accelerator pedal if it is depressed;

- if a **DOWN-shift** is requested to start overtaking, where rapid acceleration is required, press the accelerator pedal just before moving the lever;
- wait until gearshifting is completed before requesting the next one, avoiding a rapid sequence of multiple requests.

DOWN-shifting due to engine underrevving

- The system shifts down the gears “automatically”, if the engine runs below the minimum speed rate, set at 1,250 RPM.
- The **DOWN-shift** request from the lever is ignored if gearshifting due to a too low engine RPM is already in progress.

Sequential downshifting

During deceleration, with the brake pedal pressed and the ABS system not activated, sequential downshifting can be performed by holding the left-hand **DOWN** paddle down.

The gearshifting request is accepted until the second gear is engaged.

“N” (Neutral) request

With the engine running, pull both **UP** and **DOWN** paddles towards the steering wheel at the same time without pressing the brake pedal to request neutral “N”.

If necessary, “N” can be requested at any speed.

Subsequently, if an **UP** or **DOWN** shift is requested, the system will engage the gear most suited to the speed of the vehicle.

F1-SuperFast 2 gearshifting

Using the elastic power of the transmission devices and the integrated electronic management of engine and gearbox, the **F1-SuperFast 2** system enhances vehicle performance.

The different gearshifting stages (torque reduction and clutch disengagement, gear disengagement and engagement and subsequent clutch re-engagement) are actuated in sequence.

This results in extremely fast gearshifting which drops down to approximately 60 ms (measured as “acceleration gap”).

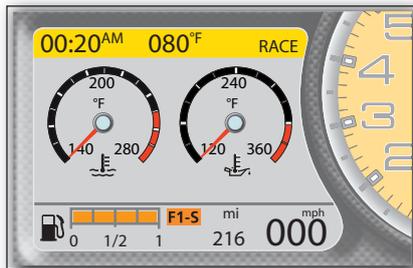
F1-SuperFast 2 gearshifting activates only in the following conditions:

- driving mode control switch set to SPORT, RACE, CT OFF or CST OFF

⚠ Only use RACE mode on a race track.

- engine speed over 5,000 RPM and accelerator pedal pressed beyond a specific threshold
- lateral acceleration < 0.9 g
- no traction control
- engine water temperature > 158 °F (70 °C) and engine oil temperature > 59 °F (15 °C).

When F1-Superfast 2 gearshifting is available, “F1-S” appears on the TFT display.



F1-SuperFast 2 gearshifting is not available in the following conditions:

- driving mode control switch set to Low-grip
- engine speed below 5,000 RPM or accelerator pedal not pressed beyond a specific threshold
- lateral acceleration > 0.9 g
- skidding of the rear wheels
- traction control activated
- engine water temperature < 158 °F (70 °C) and engine oil temperature < 59 °F (15 °C).

Stopping the vehicle

When the vehicle stops, the system automatically engages 1st gear unless Neutral has already been requested.

When the vehicle is stationary and the engine is running, hold the brake pedal down until you are ready to move off again.

Turning off the engine and deactivating the system

The engine can be turned off either with the gearshift in N or with a gear engaged.

After turning the ignition key from position II to position 0, the gearbox display will remain on for a few more seconds to display the engaged gear. If the gearshift is in N, a buzzer will sound.

⚠ Do not start the vehicle before the gearbox display has turned off.

Never leave the vehicle with the gearbox in N but engage a gear (1st or R), check that the display does not flash and always apply the parking brake. Never leave the vehicle with the engine running.

⚠ Never remove the key when the vehicle is moving! The system and the display will remain active, but malfunctioning, until the vehicle is stopped. In addition, the steering wheel will lock automatically with the first turn of the steering wheel.

In any event, it is advisable to:

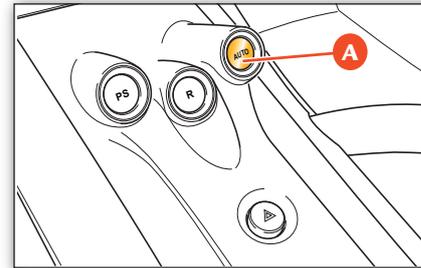
- turn off the engine and the system, holding the brake pedal depressed;
- do not request a gearshift while the system is being turned off.

Other system functions

“Auto gearbox” mode

The “Auto gearbox” mode is enabled/disabled by pressing the **AUTO A** button on the center console.

When the “Auto” mode is enabled, the word “auto” appears on the gearbox display.



When the “Auto Gearbox” mode is enabled, the system will automatically **UP-shift** and **DOWN-shift** according to vehicle speed, engine revs and the torque/power request of the driver.

When you are in “Auto” mode, you can however manually shift gears using the **UP** and **DOWN** paddles. The system remains in “Auto” mode: this is indicated by the word “**auto**” flashing on the gearbox display when the paddles are used.

When the vehicle is stationary, an “**N**”, 1st gear or “**R**” request will not change the mode from “Auto” to “Manual”.

“Auto easy exit” mode

Every time the vehicle is started, the gearbox starts in “Auto easy exit” mode unless it was in “Auto” mode when the engine was turned off. In this case, it remains in “Auto” mode the next time the engine is started.

Activation is signalled by the word “**auto**”, and an arrow ▼ on the gearbox display.



In this mode the system will automatically **UP-shift** and **DOWN-shift** according to the vehicle speed, the engine RPM and the torque/power requested by the driver.

To exit the “Auto easy exit” mode and go to “Manual” mode, operate the **UP** or **DOWN** paddle (while the vehicle is moving) or press the **AUTO** button on the center console.

If you then request “Auto” mode by pressing the **AUTO** button, the system will use all the “Auto gearbox” gearshifting features.

“Performance Start” strategy

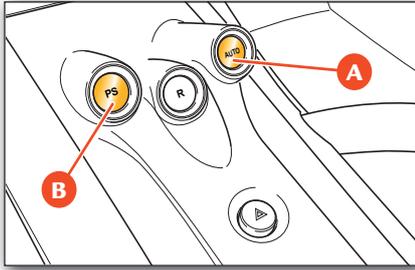
⚠ Only use the Performance Start strategy on a race track.

The “Performance Start” function is designed to help provide the vehicle with a sportier acceleration.

The device, that is not available when the Manettino is set to the “Low Grip” driving mode, transfers the necessary torque to the ground and avoids skidding of the wheels during acceleration.

To start the vehicle in “Performance Start” mode, do the following:

- with the car stationary and the gearbox in “Manual” mode, hold the brake pedal down and engage 1st gear
- press the **PS** button **B** on the center console: the letter “**L**” flashing on the gearbox display informs the driver that the device has been activated



- release the brake pedal and fully press the accelerator pedal: the best standing start performance is achieved thanks to an optimized clutch engagement strategy.

If the accelerator pedal is not 100% pressed, the “Performance Start” function is deactivated.

The “Performance Start” function is not available in presence of:

- a sloping road surface, even slight
- high clutch temperatures

Push start

In the event that the ignition system malfunctions, you can “push start” the vehicle as follows:

- perform the “system starting” procedure (see page 107);
- as the vehicle is gaining speed, request an **UP-shift** with the gearshift in **N**.

This procedure should be avoided unless there is an emergency situation!

Restarting the engine

In the event that the engine is turned off accidentally, restart it using the **ENGINE START** button, after turning the key to **0** and then to **II**: the engine will start immediately.

Parking

Apply the parking brake, engage 1st gear whether facing uphill or downhill, turn the wheels inwards and turn off the engine.

As the 1st gear is the most reduced, it is more suited to use the engine as a brake.

When parking on a steep slope, use a wedge to block the wheels.

Never leave the ignition key in position **II**.

Always remove the key when you get out of the vehicle.

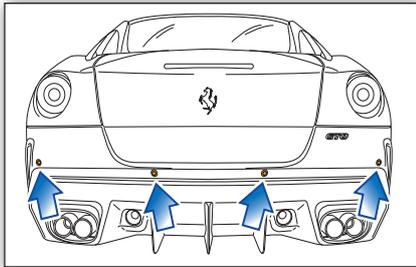
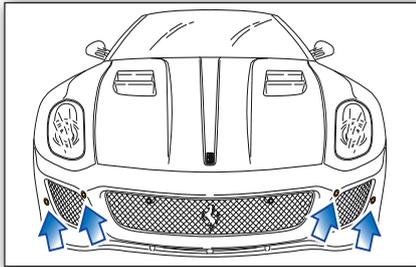
⚠ Never leave children unattended in the vehicle.

Do not park the vehicle on flammable materials (e.g., paper, grass, dry leaves, etc.). They could catch fire if they come into contact with hot parts of the exhaust system.

Never leave the vehicle with the engine running.

Parking sensors (optional)

To help the driver when parking, the vehicle can be fitted on request with four sensors in the rear bumper (rear parking sensors), or four sensors in the front and rear bumpers (front and rear parking sensors).



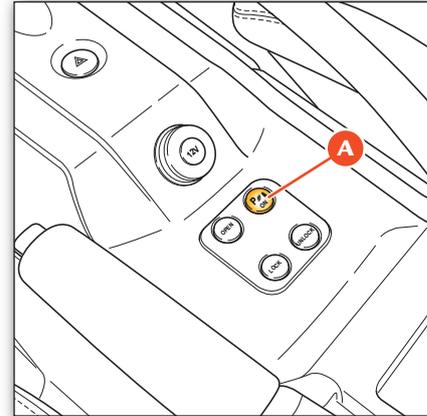
⚠ The system will only operate correctly if the sensors on the bumpers are free of mud, dirt, snow or ice.

When approaching obstacles in front of or behind the vehicle, the parking sensors inform the driver of the distance between the vehicle and the obstacle by way of acoustic signals, which become more frequent as the obstacle approaches, and visual signals in area **B** of the TFT display. By supplementing the driver's direct visual information with that provided by the system acoustic signals and visual warnings, potential collisions can be avoided when parking.

⚠ The driver has full responsibility for parking maneuvers and other potentially dangerous situations. The system has only been designed as an aid during parking maneuvers since it detects obstacles that are outside the driver's field of vision.

Use of the sensors therefore does not mean that the driver can be less careful and attentive and not watch out for persons and obstacles during parking maneuvers.

The rear parking sensors are automatically activated when the key is in position **II** and reverse gear is engaged. When the rear sensors are activated, an acoustic signal warns the driver that the system has been activated. If the vehicle is also equipped with front sensors, these can be activated or deactivated by pressing button **A** on the center console.



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“Stop and Go” function

The “Stop & Go” function, available on vehicles with front and rear parking sensors, automatically activates the front sensors when vehicle speed is 6 mph (10 km/h) or below. This system has been designed to assist the driver in certain traffic conditions (e.g., tailgating) and signals when the minimum distance is reached between the vehicle and the vehicle in front.

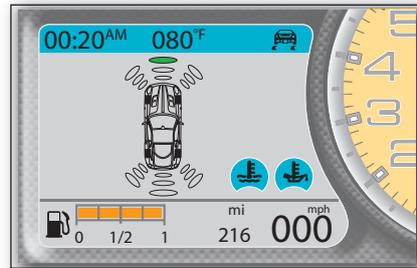
To activate or deactivate the system, call up the MENU screen page, select the items “Car setup”, “Parking sensor”, and select one of the two options, “ON” or “OFF”.

Indication of obstacles

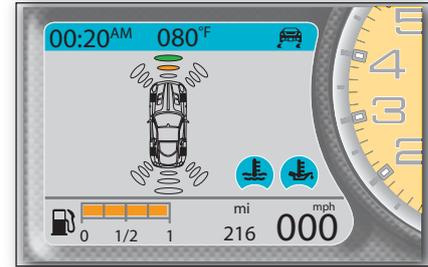
The parking sensor system emits acoustic signals as soon as an obstacle is detected which become more frequent as the obstacle approaches. The acoustic signal stops immediately if the distance from the obstacle increases whereas the tone cycle remains constant if the measured distance from the central sensors remains unchanged.

The vehicle symbol and sensor detection zones appear on the TFT display: these zones indicate which part of the vehicle is approaching an obstacle (if front or rear and if left, right or central) and the distance from the obstacle (maximum, medium or minimum).

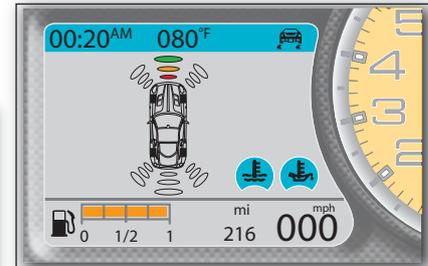
If an obstacle is detected at maximum distance in the central front part, it will be displayed as shown below (green).



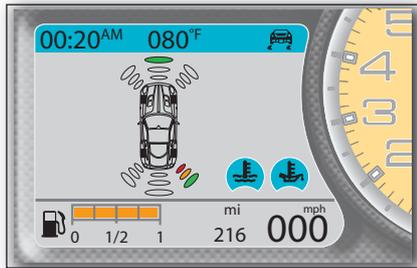
If an obstacle is detected at medium distance in the central front part, it will be displayed as shown below (orange).



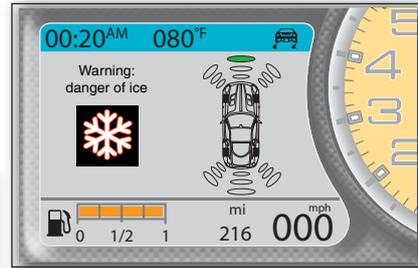
If an obstacle is detected at minimum distance in the central front part, it will be displayed as shown below (red).



If the front sensors are deactivated or not present, the display does not show the symbols in the front. In the same way, if front sensors are fitted and the rear ones are not activated, the display only shows the symbols in the front. If all the sensors are activated, the system can give several pieces of information at the same time: if an obstacle is detected at a maximum distance in the front central part and at a minimum distance in the rear right part, it will be displayed as shown below.



If the parking sensor system symbols are being displayed and an event occurs that needs to be displayed as an icon and/or special message, the symbol is moved from the center of the display to the right as shown below.



Cleaning the sensors

⚠ When cleaning the sensors, be very careful not to scratch or damage them and avoid using dry, rough or hard cloths.

The sensors must be washed with clean water and car shampoo added if necessary. In car washes that use steam jet or high pressure water cleaning equipment, quickly clean the sensors keeping the nozzle at a distance of at least 4 in. (10 cm).

For the repainting of bumpers or retouching the paintwork in the sensor area, contact your AUTHORIZED FERRARI DEALER. If paint is applied incorrectly, it may stop the parking sensors from working properly.

Sensing range

The sensors allow the system to monitor the rear and front of the vehicle: their position covers the central and side areas of the vehicle.

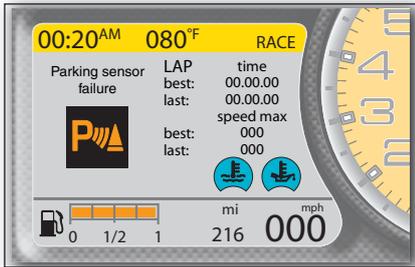
If an obstacle is in the central area, it is detected at distances of approximately 55.1 in. (1.40 m) depending on the type of obstacle and its size.

If an obstacle is in the side area, it is detected at distances of less than 31.5 in. (0.8 m).

Indication of parking sensor failure

The system ECU checks all the components each time the reverse gear is engaged.

A parking sensor system failure will be signalled on the TFT display.



If there is a failure signal, stop the vehicle and turn the ignition key to position **0**. Try cleaning the sensors or moving the vehicle away from any possible ultrasound sources (e.g., pneumatic brakes on trucks or pneumatic drills) and turn the ignition key back to position **II**. In this way, if the cause of malfunctioning has been corrected, the system will start operating correctly again and the failure buzzer will stop.

If the failure buzzer continues, contact your **AUTHORIZED FERRARI DEALER** to have the system checked.

The sensors are able to detect obstacles with reasonably large, even surfaces (e.g., poles with diameters of over 2.4 in./60 mm, walls, barriers, trees). Detection is not optimum with obstacles with sharp projections or uneven surfaces.

During parking maneuvers, always take the utmost care as there may be obstacles located above or below the sensors.

Objects placed close to the rear part of the vehicle are not always detected by the system and may therefore damage the vehicle or be damaged themselves.

The signals sent by the sensors can also be affected by damage to the sensors caused by dirt, snow or ice on the sensors or by ultrasound systems (e.g., pneumatic brakes on trucks or pneumatic drills) in the vicinity.

⚠ The driver has full responsibility for parking maneuvers and other potentially dangerous situations. The system has only been designed as an aid when parking since it detects obstacles that are outside the driver's field of vision. The sensors are therefore not a substitute for the driver's care and attention when parking and checking for the presence of persons or objects.

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Proper driving

It is essential that the driver be aware of the best driving techniques suited to various circumstances. Always try to prevent dangerous situations by driving with caution.

Before you drive

- Adjust the position of the seat, steering wheel and the rear and side view mirrors, in order to obtain the best driving position.
- Adjust the backrest so that your chest is upright and your head is as close to the headrest as possible.
- Properly fasten the seat belts.
- Ensure that nothing (e.g., floor mats, etc.) is blocking the pedals.
- Check that all lights including the headlights are working properly.
- Ensure that any child restraint systems (e.g., child seats, etc.) are properly fixed on the passenger seat.

- Your reflexes are quicker if you eat lightly before driving: avoid heavy meals before a trip.
- Never drink any alcoholic beverages before or during the journey.

At regular intervals, check the following:

- Tire pressure and condition.
- Engine oil level.
- Engine coolant level and system condition.
- Brake fluid level.
- Steering fluid level.
- Windshield washer fluid level.

While traveling

- Caution is the number one rule for safe driving, which also means you should take other people's behavior into consideration.
- Follow the road regulations in force in the state or province you are driving in and always respect the speed limit.
- Always make sure that the driver and passengers have their seat belts fastened and that all children are traveling in suitable child seats.

- Good personal physical conditions help ensure you can drive long distances safely.



Driving under the influence of drugs, alcohol, or certain medications is dangerous to yourself and others.

Traveling without your seat belt fastened increases the risk of serious injury and death in the event of a collision. Always fasten seat belts and use child seats, if necessary.

Deactivate the passenger's airbag (where possible) if a child seat is fitted on the passenger seat.

Do not travel with objects lying on the floor, especially in front of the driver's seat: in the event of braking, these could slide under the pedals, making it impossible to brake or accelerate.

Additionally, ensure that the floor mats fit correctly.

Water, ice and salt spread on icy roads may deposit on the brake discs and reduce the efficiency of the initial braking.

- Make regular stops to loosen up your limbs and refresh yourself, and avoid driving for hours on end.
- Keep a constant air circulation in the passenger compartment.
- Never coast downhill with the engine off: in these conditions the engine brake, servo brake and power steering are inefficient, braking requires greater pressure on the pedal and steering will be harder.

Driving at night

When you are traveling at night, follow these fundamental rules:

- Reduce speed, particularly on dark roads.
- Driving conditions are more demanding at night, so take particular care.
- If you start feeling tired or sleepy, stop immediately: to continue driving would be a risk for yourself and for others. Continue only after you have had a rest.
- At night, it is difficult to judge the speed of vehicles in front of you as you can only see their taillights: keep at a greater safety distance than you would during the day.

- Use the high beams only outside of urban areas and when you are sure that they will not disturb other drivers.
- Turn off the high beams when you see oncoming vehicles and use the low beams.
- Keep the lights and headlights clean.
- Watch out for animals crossing the road when traveling outside urban areas.

Driving in the rain

Rain and wet roads can cause hazardous situations.

All maneuvers are more difficult on a wet road since tires have significantly less grip on the road. This means that the braking distances increase considerably and road-holding decreases.

Below is some advice for driving in the rain:

- Keep a greater safety distance between yourself and the other vehicles and reduce your speed.
- When it is raining very hard, visibility is also reduced. In these cases, to make yourself more visible to others, turn on the low beams even during the day.

- Drive through puddles at low speed to avoid losing control of the vehicle ("aquaplaning"): if this occurs, grip the steering wheel firmly.
- The recommended driving mode when driving in the rain is "Low Grip" mode.



If the road is wet, reduce your speed to avoid "aquaplaning", during which the tire no longer touches the road surface. This is due to the fact that, when the road is very wet and vehicle speed is high, because of their particular shape or insufficient depth, the side channels of the tire tread are not capable of removing all the channelled water due to their particular shape or insufficient depth and a layer of water is placed between the road surface and the tire. The fluid pressure generated is so high that it supports the vehicle's weight making it virtually impossible for the driver to control the vehicle.

- Use the ventilation system to demist the windshield (see page 136) and avoid visibility problems.
- Periodically check the condition of the windshield wiper blades.

Driving in fog

Whenever possible, avoid driving if there is thick fog. If you have to drive in misty conditions, or if there is thick fog or fog banks, follow these rules:

- Keep a moderate speed.
- Turn on the low beams, also during the day, and use the rear fog light. Avoid using the high beams.

⚠ On roads where visibility is good, turn off the rear fog light, it may be annoying for the occupants of the vehicles behind you.

- Remember that fog makes the road damp and therefore all maneuvers are more difficult and braking distances are longer.
- Keep a safe distance from the vehicle in front of you.
- As far as possible, avoid suddenly changing speed and direction.
- As far as possible, avoid overtaking.
- In the event of an emergency stop, (e.g., failures, inability to proceed due to poor visibility conditions, etc.) try to leave the main driving lane.

Then turn on the hazard warning lights and, if possible, the low beams. On approaching another vehicle, sound the horn rhythmically.

Driving on mountain roads

Below is some advice for driving on steep mountain roads:

- To prevent the brakes from overheating when driving downhill, use the engine to brake by engaging a lower gear.
- Never coast downhill or drive downhill with the engine off or in neutral, nor with the ignition key removed from the steering column.
- Drive at a moderate speeds and do not “cut” corners.
- Remember that overtaking uphill is slower and requires a longer free stretch of road. If you are overtaken when driving uphill, ensure that the other vehicle can pass easily.

Driving on snowy or icy roads

Below is some advice for driving in these conditions:

- Keep a very moderate speed.
- Keep a safe distance from the vehicles in front of you.
- Fit snow tires approved for the vehicle.
- Given the poor grip, use the engine brake as much as possible and avoid sudden braking.
- Avoid sudden acceleration and sharp changes in direction.
- During the winter season, even apparently dry roads can have icy sections.
- Be careful when driving along stretches of road in the shade as there may be icy patches.

Driving with the “ABS” braking system

The ABS system assists the driver as follows:

- It is designed to help prevent the wheels from locking and skidding during emergency braking, particularly in low-grip conditions.
- It allows braking and changing direction at the same time. This feature is affected by the physical limits and lateral grip of the tires.
- When the ABS is activated, you will feel a slight pulsing of the brake pedal during emergency braking or in low-grip conditions. This is normal. DO NOT release the pedal but continue to depress it to give continuity to the braking action.
- The ABS helps prevent the wheels from locking, but it does not increase the physical limits of grip between the tires and the road: keep a safe distance from the vehicles ahead and reduce speed before curves.

Suspension damping control

This vehicle uses latest generation MagneRide™ SCM2 magnetorheologically controlled suspension, a system developed by Delphi and refined by FERRARI for continuous automatic damping control.

By processing data received from the vehicle dynamics sensors and sensors that detect bodyshell movements, the ECU interprets the driving conditions and the road surface and immediately adjusts suspension response by varying the control current of each shock absorber.

This system not only ensures an optimal compromise between racing-style performance (handling) and comfort, but is capable of emphasising either aspect by using the different adjustments available controlled by the “Manettino” driving mode control switch. Three different setting levels are available on this vehicle.

Level 1 (SOFT)

Slightly more flexible setting, optimized to better absorb road unevenness and provide a better grip on wet road surfaces (Manettino set to "Low Grip").

Level 2 (SPORT)

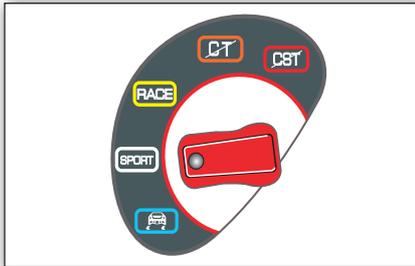
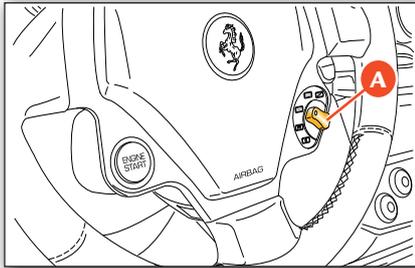
Slightly more rigid adjustment optimized for sports-style driving and for high speed (with medium-high grip), without significantly affecting comfort (Manettino set to SPORT).

Level 3 (RACE)

Even more rigid setting optimized for use on the race track (Manettino set to RACE, CT OFF, CST OFF).

Driving using the driving mode control switch (“Manettino”)

The driving mode control switch **A** on the steering wheel is designed to allow the driver to use the vehicle potential in a fast and intuitive way.



There are five modes available, which correspond to the grip level (from low to high) and consequently to the level of driving assistance required (from high to none).

Low-grip Mode

“Low-grip” mode provides stability on dry as well as on wet roads. It is therefore recommended for low grip conditions (e.g., rain) and on slippery or extremely uneven roads, but also to enhance comfort during city driving. Suspension damping is optimized to provide the best possible absorption (Level 1) and the CST system is at its maximum level; the standard Bosch ASR system is activated instead of the F1-Trac function.

SPORT mode

The “SPORT” mode is the best setting for daily road use. This mode is designed to ensure stability only in medium-high grip conditions. Suspension damping shifts to Level 2. The CST system also shifts to a different level offering you greater driving freedom.

RACE mode

 The RACE mode is to be used exclusively on the race track.

Gearshifting favors the racing style of the vehicle whereas the CST shifts to Level 3 (engine power reductions are minimal) and the suspension becomes even stiffer (Level 3). The performance ABS shifts to “Sport” level. This mode is designed to ensure stability on the race track in high grip conditions.

 Use of the vehicle on race tracks: after each start, cover the first straight stretch of the track (at least 0.3 mi/500 meters) at a constant speed so that the traction control system and the ABS can calculate exactly the grip available and the diameter of the tires (the calculation is reset every time the engine stops). If this rule is not followed, system performance may be reduced.

CT OFF mode

⚠ CT OFF mode is to be used exclusively by very experienced drivers and only on the racing track.

In “CT OFF” mode, F1-Trac traction control is disabled. This mode further enhances the already racing-style behavior of the vehicle: traction control is disabled while stability control remains active when a certain level of sideslip is exceeded. The gearshift mode, suspension damping and the performance ABS setting are the same as the previous position. Stability is not ensured.

CST OFF mode

⚠ CST OFF mode is to be used exclusively by very experienced drivers and only on the racing track.

In “CST OFF” mode the CST system is disabled. The only auxiliary systems still active are those that cannot be deactivated such as ABS and EBD and the driver is allowed complete freedom and control of the vehicle for track use. The gearshift mode, suspension damping and the performance ABS setting are the same as the “RACE” and “CT OFF” modes.

⚠ In low to medium-grip conditions (e.g., wet, icy, sandy roads), do not deactivate the CST system.

Every time the engine is started, the CST system will reactivate.

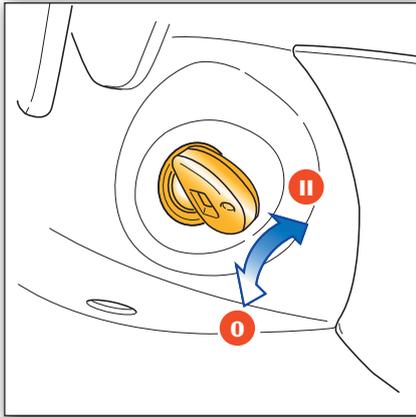
When the brake pedal is pressed, traction control is activated via the VDC system (vehicle dynamics control via the braking system).

Ignition switch

The ignition key can be turned to 2 positions:

Position 0 - Stop

Engine off, key removable.



When the key is even only partially extracted, the steering column is locked.

The hazard warning lights and the parking lights can be activated.

To facilitate steering wheel release, turn the steering wheel slightly in both directions while turning the ignition key.

Position II - Ignition

Turning the key to this position, the TFT display will check the signals coming from the vehicle systems.

If no malfunctions are found after starting up, the words “**Check OK**” will be displayed.

⚠ Never remove the key when the vehicle is moving!

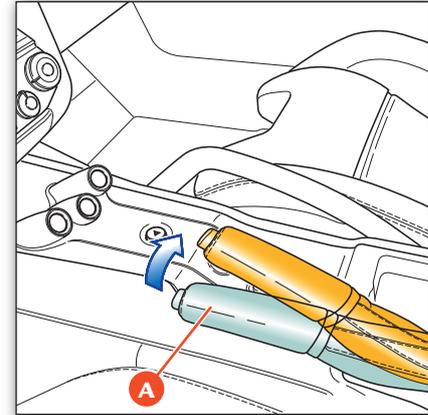
The steering wheel will lock with the first rotation of the steering wheel.

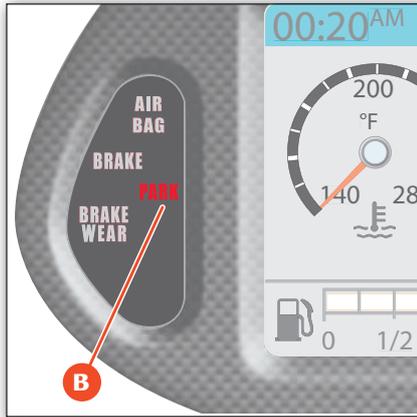
Always remember to remove the key from the ignition when you get out of the vehicle!

Never leave people who are more subject to injury children unattended in the vehicle.

Parking brake lever

To engage the parking brake, pull the lever **A** fully upwards, until the rear wheels lock.





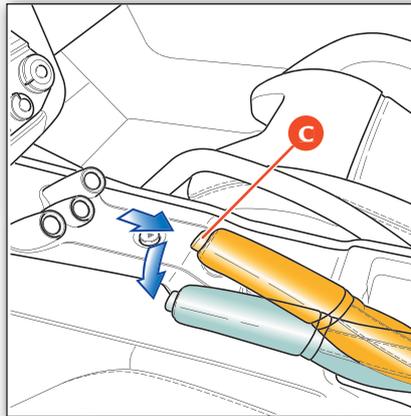
With the ignition key in position II, the warning light **B** illuminates to indicate that the parking brake is engaged.

To release the parking brake, slightly pull the lever upwards and press the release button **C**. Lower the lever fully while pressing the button down.

The warning light will turn off when the parking brake is fully released.

⚠ Always apply the parking brake when the vehicle is parked.

After hearing a series of clicks when pulling the parking brake lever, the vehicle should be blocked. If this is not the case, please contact your **AUTHORIZED FERRARI DEALER**.



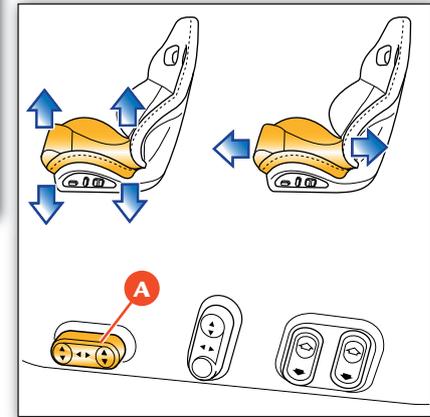
Seat adjustment

⚠ As with all adjustments, seat adjustments must be performed when the vehicle is stationary.

Correct adjustment is very important for enhanced driving comfort and maximum efficiency of the passive safety systems.

Electrically-adjustable seat

The seat position can be electrically adjusted using controls **A**, **B**, **C** and **D**.

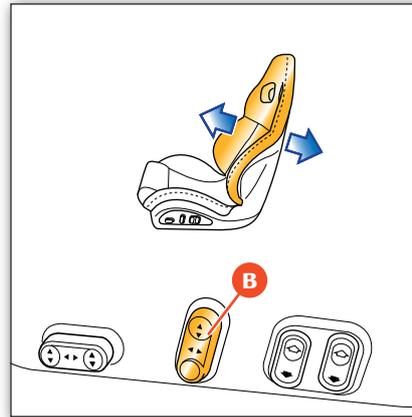


Three adjustments are possible using control **A**:

- forward/backward adjustment: push the control forward or backward
- height adjustment: push the control up or down
- seat inclination (tilting): push the front end of the control up or down to adjust the inclination of the front part of the seat cushion; push the rear end of the control up or down to adjust the inclination of the rear part of the seat cushion.

⚠ The backward/forward adjustment must consider the fact that airbag devices are placed in front of the driver and the passenger (see page 42).

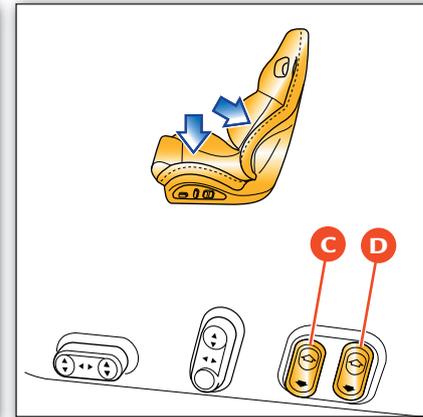
Correct adjustment ensures there is adequate space between the airbag and the driver/passenger.



Use control **B** to adjust the seat backrest inclination. Push the control forward or backward to adjust the seat backrest inclination.

Use control **C** to adjust the seat cushion sides. Push the control on the seat symbols to increase or decrease the seat cushion side supports.

Use control **D** to adjust the seat backrest sides. Push the control on the seat symbols to increase or decrease lateral bolstering of the backrest.



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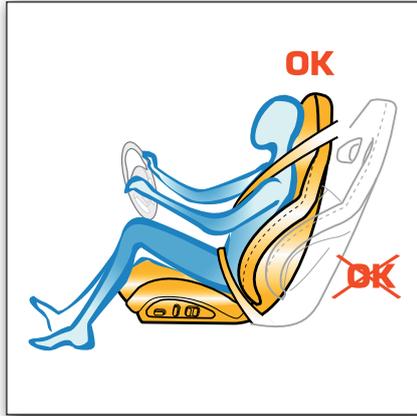
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⚠ Sitting in a reclined position while the vehicle is in motion could be dangerous. The backrest should not be tilted too far back. The 3-point shoulder/lap belt must be firmly secured against the occupant's body in order to function properly. Therefore, both the driver and passenger's backrests must always be in an upright position while the vehicle is in motion; otherwise the 3-point shoulder/lap belt would not remain firmly secured against the occupant's body.

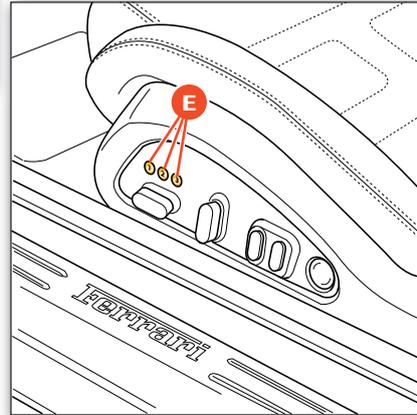
Serious injury could result.

Driver's seat position memory (optional)

This device allows you to memorize and recall three different seat positions.

You can memorize the seat position only when the ignition is in position II.

After adjusting the seats by means of the controls described above, push one of the three buttons 1, 2 or 3 (E), each corresponding to a memorizable position, until you hear a double confirmation tone.



The lumbar support adjustment will not be memorized with the seat position.

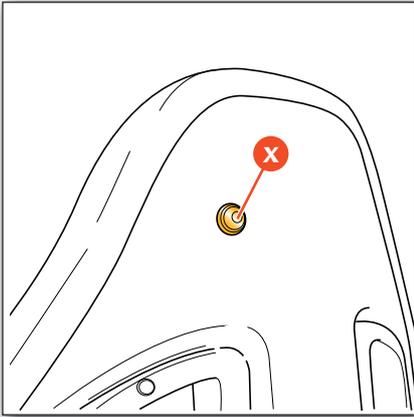
The memorization of a new seat position cancels the one previously stored with the same button.

To recall one of the memorized positions when the door is open, press button 1, 2 or 3 (E) for about 3 seconds.

To recall the memorized position with the door closed, press the relative button until you hear the tone indicating that the seat has stopped.

Tilting the backrest

Press button **X** to tip the backrest forward.



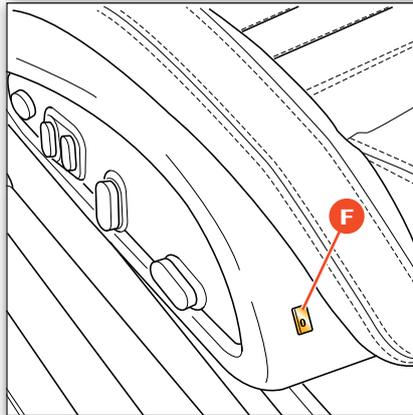
Press button **X** before returning the backrest to its original position.

Seat heating system (optional)

Turn control **F** to activate the seat heating function.

When this function is active for one or more seats, the relative warning light on the instrument panel illuminates.

Using control **F**, the driver can adjust the heating, choosing from 3 levels identified on the control with the numbers 1, 2 and 3.



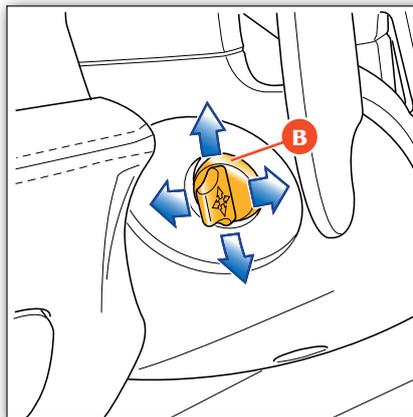
Adjusting the steering wheel

⚠ Do not adjust the steering wheel when the vehicle is moving.

The steering wheel can be electrically adjusted for rake and reach.

Move control **B** (to the left of the steering column) in the four directions to adjust the steering wheel (only when the ignition key is in position **II**).

On vehicles equipped with a driver's seat with memory, the position of the steering wheel is memorized together with the position of the side view mirrors when the driver's seat position is memorized.



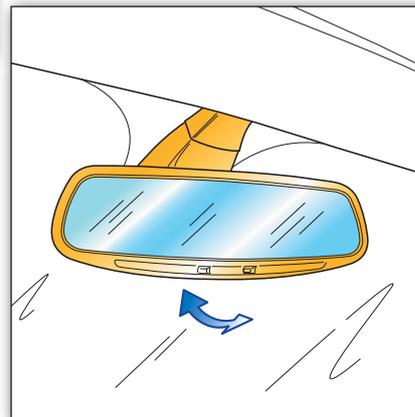
To help the driver when entering or exiting the vehicle, the steering wheel is lifted automatically.

Rear and side view mirrors

Internal rear view mirror

Hold the internal rear view mirror and move it to the required position.

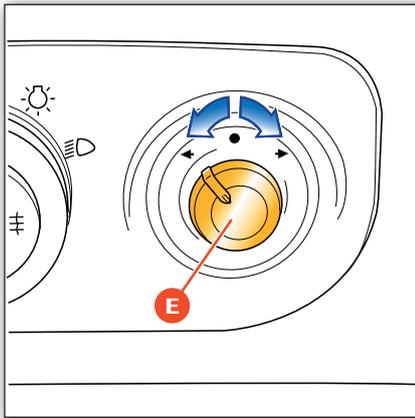
On request, the internal rear view mirror can be fitted with an optional electrochromic mirror that automatically darkens to reduce the glare effect of the reflected light on the driver. The speed with which the mirror darkens depends on the intensity of the light.



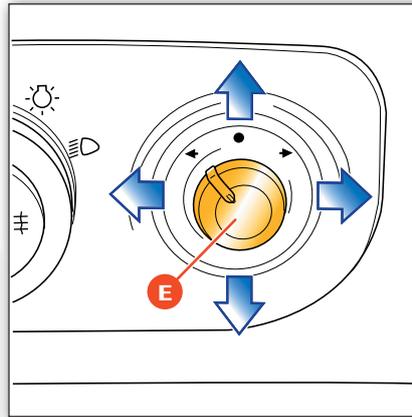
Side view mirrors

These mirrors can be electrically adjusted using control **E** (with the ignition key in position **II**) and are equipped with defogging elements.

- 1) Mirror selection: turn control **E** to the left or right lock position to select the mirror that requires adjusting.



- 2) Mirror positioning: move control **E** in the four directions (up – down – right – left) to adjust the selected mirror.



Once adjustment is complete, move control **E** into the upper central position where it will be locked in order to avoid changing the setting inadvertently.

The mirrors will fold in both directions in the event of a collision: if necessary, the mirrors can be pushed both backwards and forwards.

On vehicles equipped with a driver's seat with memory, every time the seat position is memorized, the side view mirror position is also stored automatically, both for normal traveling direction and reverse maneuvering.

To memorize a new position of the side view mirrors, turn the ignition key to position **II** and adjust the position of the mirrors; then engage reverse and reposition the external mirrors to ensure the best possible visibility to perform the maneuver, then disengage reverse gear.

Finally, press one of the buttons 1, 2 or 3 on the seat (see page 130), each one corresponding to a memorizable position, until a double tone confirms that the procedure is complete.

The new position of the side view mirrors will be automatically memorized together with the seat position.

In addition, the mirror positions can be adjusted for both the normal traveling direction and for reverse maneuvering.

⚠ The rear and side view mirrors must always be positioned correctly while driving.

Do not adjust the rear and side view mirrors when the vehicle is moving.

Air conditioning and heating system

Operating modes

Automatic

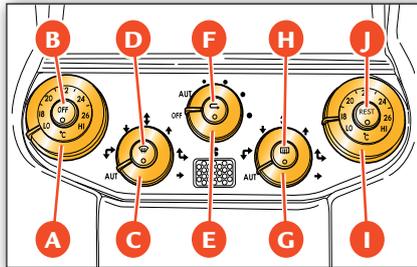
This mode automatically adjusts the air distribution, temperature and ventilation levels according to the temperature set by the user.

Partially Automatic

This mode allows the user to adjust certain parameters manually, while others remain automatic.

Manual

This mode allows the user to set the values to suit the passengers' needs.



Controls

- A** Drivers side temperature setting
- B** Air conditioning compressor activation/deactivation
- C** Drivers side air distribution setting
- D** Windshield defogging/demisting
- E** Fan speed adjustment
- F** Recirculation function
- G** Passenger side air distribution setting
- H** Rear window and side view mirrors defogging/demisting
- I** Passenger side temperature setting
- J** Residual heat function.

Starting

Fully automatic management: turn controls **C**, **E** and **G** to the "AUT" position.

Deactivation

Deactivate the compressor by pressing button **B** and turning the (fan speed) control **E** to "OFF"

Air conditioning control switch B



Released (LED off)

The air conditioner is on.

The air is cooled and/or only dehumidified according to the temperature set.

Pressed (LED on)

The air conditioner is off.

However, heating is still enabled and will activate according to the temperature set.

Air conditioning control switches C and G



These can operate in two modes:

Automatic "AUT"

The air flow distribution is controlled by the electronic system, depending on the ambient conditions and the temperature set.

Manual

This is used to direct the air flow in the six positions of the respective areas (driver-passenger).

Temperature setting controls A and I



They are used to set the desired temperature in the passenger compartment.

The “**LO**” and “**HI**” (minimum and maximum, respectively) air temperature settings are activated at the opposite end positions.

Fan speed control E



It has three operating modes:

Automatic “AUT”

The air flow is controlled by the electronic system, according to the selected temperature to be reached and maintained.

Manual “OFF”

Turn the control to this position to turn off the air conditioning and to only allow air inlet from the outside when the vehicle is moving.

Fan speed

The four setting positions allow the occupants to select the air flow rate.

Residual heat function J



This function allows the user to maintain the temperature set for the passenger compartment for a specific time (15 minutes), even after the key has been turned to **0**.

To activate this function, press the “**REST**” before turning the key to **0**. The system will use the hot water recirculation pump and the first fan speed to maintain the temperature.

Air recirculation switch F



Released (LED off)

The air flow comes from the outside.

When outside temperatures exceed 90 °F (32 °C), the air recirculation feature remains on with a 60-second pause every twenty minutes, to refresh the air.

If you activate the windshield washer function, the air recirculation feature activates for 20 seconds, to prevent any smell of detergent products from entering the passenger compartment.

Pressed (LED on)

The air flow comes from inside the passenger compartment.

The recirculation increases air heating or cooling.

Prolonged use is not advisable.

Windshield defogging/demisting switch D



Press this switch (LED on) to activate windshield defogging/demisting.

To deactivate this feature, press the switch again (LED off).

Defogging/demisting switch for rear window and side view mirrors G



Press this switch (LED on) to activate the rear window and side view mirror defogging/demisting.

If it is not deactivated within thirty minutes after activation, this function deactivates automatically.

It is however advisable to deactivate it once the defogging/demisting process is complete.

Once the internal temperature has stabilized at the desired level, you are advised not to change the position of the temperature selection switch unless the external temperature changes drastically.

The air coming out of the vents does not correspond to the temperature requested by the user, but is the temperature required to maintain the desired temperature inside the passenger compartment.

Adjusting the air vents

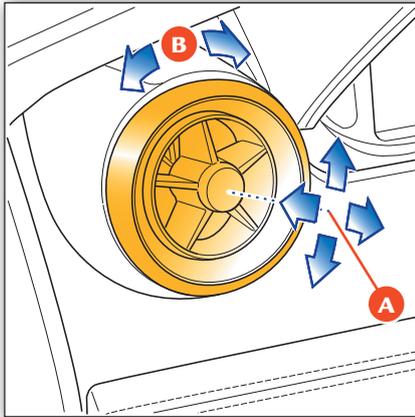
The adjustable air vents are positioned on the sides and in the central section of the dashboard.

Directing the air flow **A**.

Air flow rate **B**.

Turned counterclockwise: open.

Turned clockwise: closed.



It is advisable to keep the air flow rate **B** set to open and to direct the air flow to a neutral position **A**.

Maintenance

The pollen filter must be replaced every year, as indicated in the “Maintenance Schedule”.

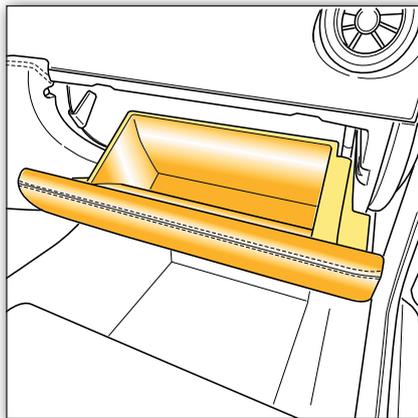
Sun radiation sensor

This sensor is positioned on the dashboard and optimizes ventilation and temperature control inside the passenger compartment according to the incidence angle of the sun rays.

Passenger compartment accessories

Glove compartment

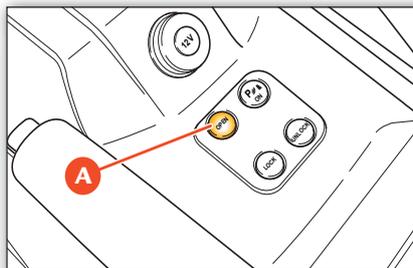
It is located on the passenger's side of the dashboard, and it is always accessible when the key is in position **II**, and for approx. ten minutes after the key is removed or turned to position **0**.



To access the glove compartment, push the button **A** on center console.

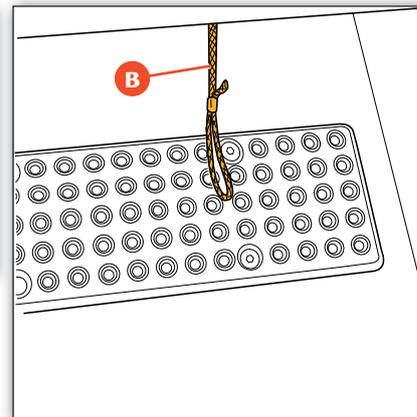
The glove compartment is illuminated by a light which turns on automatically when the glove compartment door is opened.

⚠ Keep the glove compartment closed while driving.



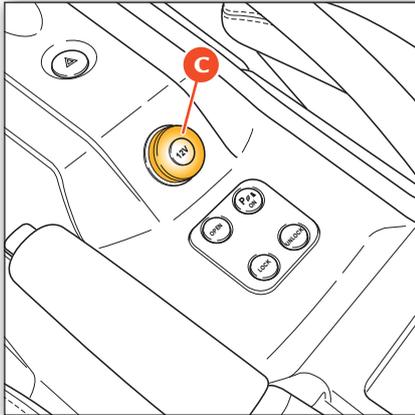
To close the glove compartment, push the upper end until you hear the click of the side locks.

Underneath the dashboard, in line with the external edge of the glove compartment, there is a safety cord **B** for manual opening in an emergency.



12V power socket

The power socket **C** on the center console can be used to power small electrical devices such as mobile phones, lights, vacuum cleaner and any other accessory with absorption not exceeding 140 watts and a voltage of no more than 12 volts.

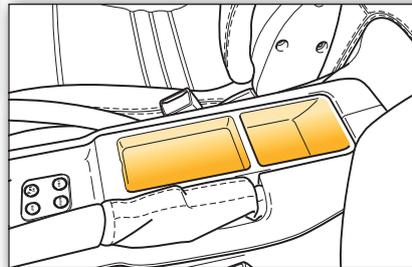
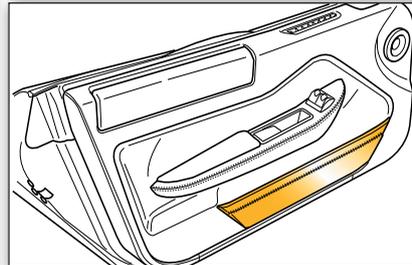


⚠ Prolonged use of a small electrical device may discharge the battery. Do not try to insert plugs into the power socket that are not the right size and shape.

⚠ Use the power socket to connect the tire repair and inflation kit in an emergency **ONLY** for the amount of time strictly necessary.

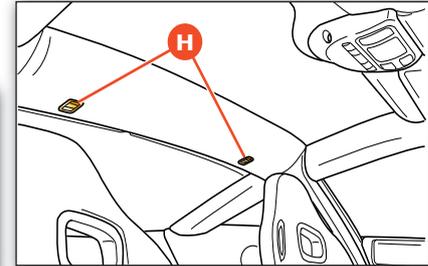
Pocket-change compartments

They are located on the lower part of the doors and on the center console.



Clothing hooks

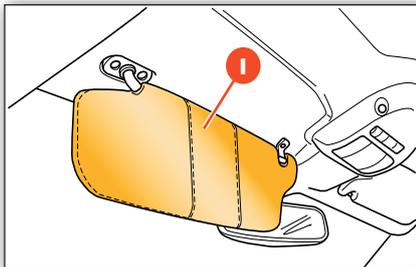
They are fitted in the rear of the passenger compartment. To release the hook, press the button **H**. To reposition the hook, push it upwards into its seat.



Move the hooks to the closed position when they are not used.

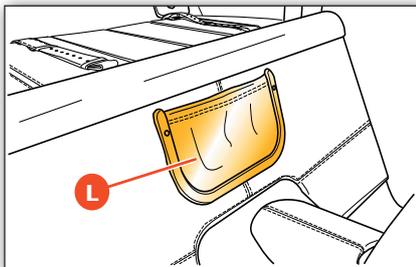
Sun visors

The sun visors can be adjusted by moving them downward. There is a map pocket **I** on the back of the sun visor.



Map pocket

A map pocket **L** is located between the two seats.



Handheld fire extinguisher (optional)

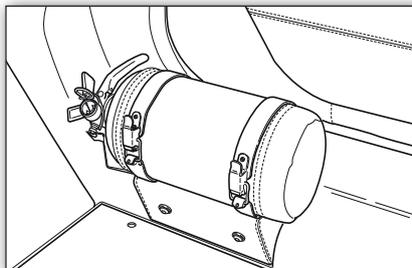
The vehicle can be equipped on request with a handheld fire extinguisher fitted with special mounting brackets to the sill on the passenger side.

Powder charged, it has a capacity of 4.4 lbs. (2 kg) (nominal discharge time 8 seconds); it does not contain CFCs.

Periodically check the correct pressure and the charge status on the pressure gauge.

The extinguisher must always be hooked onto the mounting brackets. If not used, we recommend removing the entire device to free the passenger footwell of the mounting brackets.

To use the fire extinguisher, follow the instructions on the extinguisher.



1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Glossary

7. Index



Toolkit

Replacing the headlight bulbs

Replacing the taillight bulbs

Replacing other light bulbs

Light bulbs

Replacing a fuse

Replacing a wheel

Towing

Fuel inertia switch

Battery master switch

Checking the battery

Exhaust system
overheating alarm devices

Engine malfunction
alarm devices

Replacing the
brake pads and discs

-  Repair work using the toolkit requires:
- suitable protective equipment (e.g., gloves)
 - adequate precautions to be taken (e.g., during tire replacement never lie under a vehicle raised by a jack)
 - specific expertise when working in contact with electrical parts/components (e.g., the battery).

Toolkit

Tool bag

Housed in the luggage compartment, it contains the necessary tools to perform a very basic repair in the event of a failure:

- pair of cotton gloves
- insulated cutting pliers
- screwdriver for slotted and Phillips head screws
- tow hook
- set of fuses
- pliers for removing fuses.

Emergency tire repair and inflation kit

Housed in the luggage compartment, the kit can be used in the event of a puncture or low tire pressure to repair and/or inflate a tire enough to continue the journey safely.

To use the repair and inflation kit correctly, refer to the instruction booklet supplied with the kit.

-  Give the kit and instruction manual supplied with the kit to the personnel that will perform the tire repair.
-  In the event of a puncture caused by foreign objects, tires with cuts of up to **0.6 in. (4 mm)** diameter on the tire tread and shoulder may be able to be repaired.

-  Punctures cannot be repaired on the sides of the tire.
-  Do not use the tire repair kit if the tire is damaged after driving with a flat tire.
-  Damage to the wheel rim that causes air leaks cannot be repaired.
-  Do not remove foreign objects (screws or nails) that have penetrated the tire.
-  After using the repair kit, the vehicle must be considered in an emergency situation: drive with great care and with a maximum speed of 50 mph (80 km/h).
-  Apply the sticker supplied with the kit where it can easily be seen by the driver to indicate that the tire has been treated with the tire repair kit.
-  Drive carefully especially on curves.
-  Avoid sudden accelerations or braking.
-  The kit is to be used to temporarily repair only one tire punctured by small objects: the kit may not be useful in the case of large punctures or tearing.

After driving for approximately 10 minutes, stop and recheck the tire pressure.

Remember to apply the parking brake.

 If pressure has decreased below **26 psi (1.8 bar)**, do not continue driving: the kit is then unable to provide a tight seal because the tire may be too severely damaged. Contact your **AUTHORIZED FERRARI DEALER**.

If the tire pressure is at least **26 psi (1.8 bar)**, restore the correct pressure and continue driving.

Drive very carefully to the nearest **AUTHORIZED FERRARI DEALER**.

 The repaired tire must be replaced as soon as possible and the workshop personnel must be informed that the tire was treated with tire repair fluid.

 Keep the kit in its box and out of children's reach.

 Do not inhale or swallow the fluid contained in the cartridge and avoid contact with the skin and eyes.

 The spray contains ethylene glycol and latex, and may cause an allergic reaction, is harmful if swallowed and is irritating to eyes. The spray may cause irritation by inhalation and skin contact. Avoid contact with eyes, skin and clothing. In case of contact, rinse immediately with plenty of water. If swallowed, do not induce vomiting, rinse mouth, drink plenty of water and seek immediate medical advice. Keep out of reach of children. The product should not be used by asthma sufferers. Do not inhale vapors during use. In the event of an allergic reaction, seek immediate medical advice. Store the spray can in its special case away from sources of heat.

The liquid sealant has an expiration date: the expiration date is indicated on the kit.



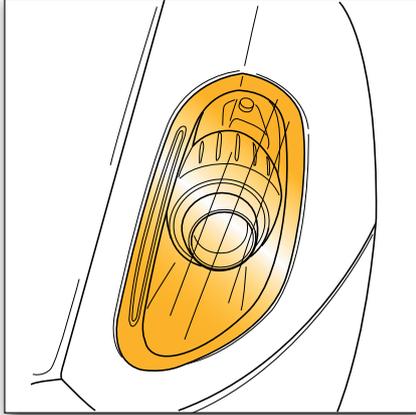
Replace the spray can containing the expired liquid sealant. Do not dispose of the spray can in normal domestic waste. Dispose of in accordance with state or provincial, and local regulations.

 The sealant in the kit cartridge can damage the sensor inside the wheel rim on vehicles fitted with a tire pressure monitoring system.

If this occurs, the sensor must be replaced. Contact your **AUTHORIZED FERRARI DEALER**.

 Wear the protective gloves supplied with the tire repair kit.

Replacing the headlight bulbs



The low/high beams are equipped with bi-xenon light bulbs.

For replacement of the high and low beam light bulbs, contact your AUTHORIZED FERRARI DEALER.

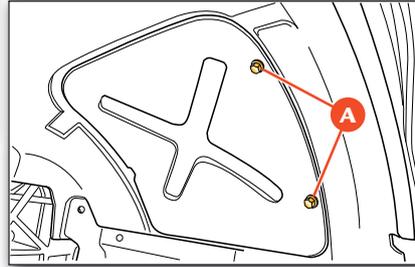
For aiming the headlight beam, please contact your AUTHORIZED FERRARI DEALER.

Replacing the front turn indicator and position light bulbs

Before replacing a light bulb in the headlights, ensure that the relative fuse is intact.

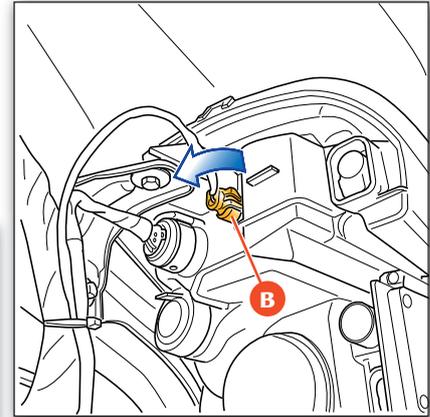
Turn the battery master switch to **OFF**.

Turn the wheels completely inward, then undo the screws **A** and extract the panel in the wheelhouse outward.

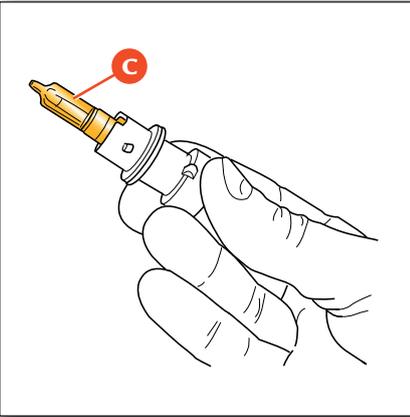


To replace the **front turn indicator bulb**, proceed as follows:

- detach the connector **B**;



- turn the bulb holder counterclockwise and extract it from its seat;

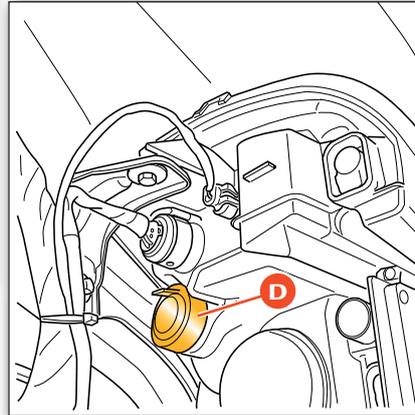


- remove the bulb **C** by pulling it outward;
- fit the new bulb by fully pushing it into place;
- refit the bulb holder in its seat and turn it clockwise until it locks;
- refit the connector.

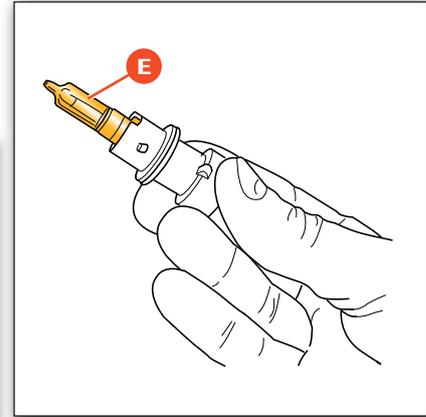
Reconnect the battery (see page 167).

To replace **the position light bulb**, proceed as follows:

- remove the rubber cover **D** from the headlight;



- grip the bulb holder by its tab and remove it from its seat;



- replace the pressure-fitted bulb **E**;
- refit the bulb holder in its seat;
- refit the rubber cover **D**.

Refit the panel into the wheelhouse.

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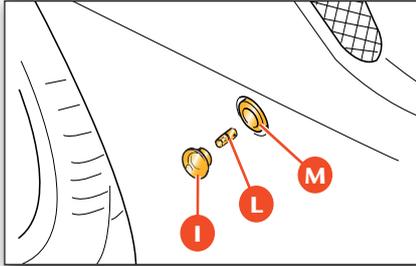
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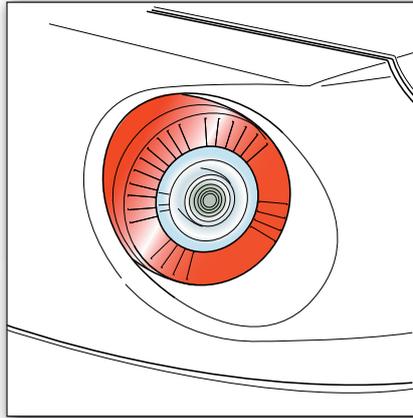
7

Replacing the side turn indicator bulbs

- Remove the transparent cover **I** of the indicator, taking care not to damage the bodywork.
- Remove the bulb **L** by rotating it and removing it from the bulb holder **M**.
- Replace the bulb and refit the transparent cover.



Replacing the taillight bulbs

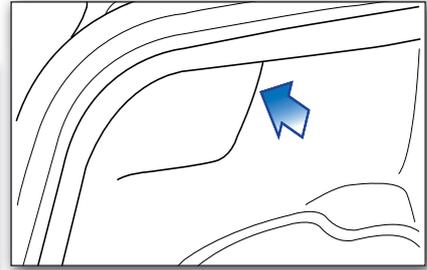


Before replacing a light bulb in the headlights, ensure that the relative fuse is intact.

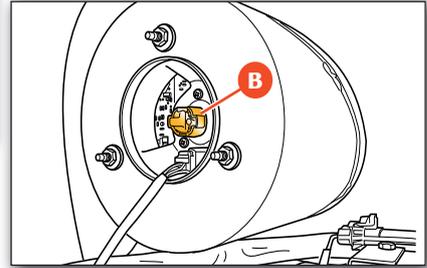
Turn the battery master switch to **OFF**.

To replace a taillight bulb, proceed as follows:

- move the luggage compartment seal strip slightly;



- remove the bulb holder **B**;



- remove the bulb by pulling it out and replace it;
- put the bulb holder back in place and refit the luggage compartment perimeter seal strip.

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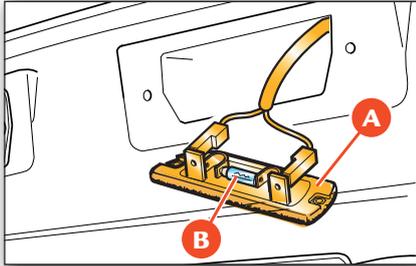
6

7

Replacing the license plate light bulb

To replace a license plate light bulb, proceed as follows:

- loosen the two fastening screws;



- remove the transparent cover **A** from its seat and replace the bulb **B** which is pressure-fitted between the two clips;
- refit the transparent cover and tighten the two fastener screws.

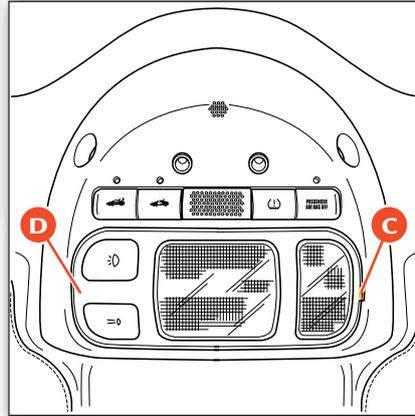
Replacing the supplementary stop light bulb

To replace the light cluster, please contact your AUTHORIZED FERRARI DEALER.

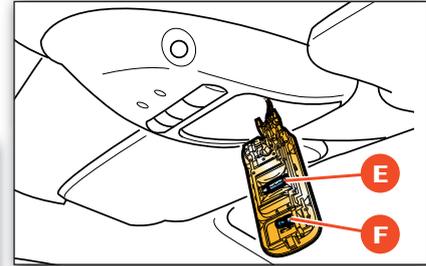
Replacing other light bulbs

Roof dome light

- Gently pry out with a screwdriver at point **C** to remove the dome light **D** from the roof.



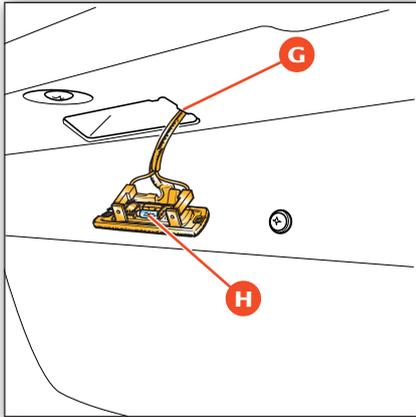
- Replace the light bulb **E** or **F**.



- Refit the dome light and make sure that the wires are not trapped by inserting it first from the connector side and then pressing on the opposite side.

Glove compartment light, luggage compartment light and underdoor light

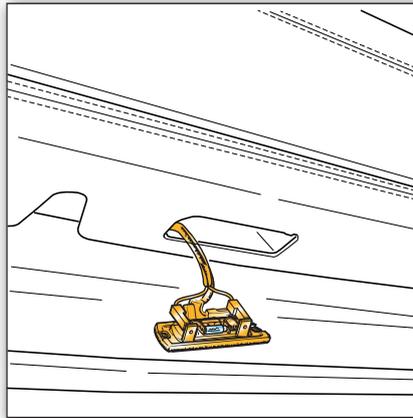
- Gently pry out with a screwdriver at point **G** to slightly lift out the dome light.



- Remove the dome light from its seat.
- Remove the pressure-fitted bulb **H**.
- Replace the bulb.

- Refit the dome light and make sure that the wires are not trapped by inserting it first from the connector side and then pressing on the opposite side.

Follow the same procedure for replacing the underdoor light bulb and the luggage compartment dome light.



Light bulbs (12V, except for low and high beams)

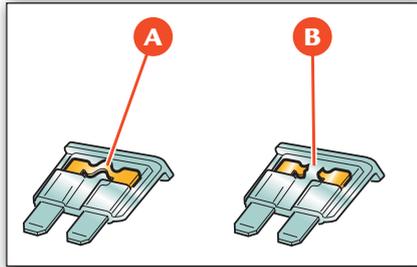
	Type	Power
Low beams and high beams	Xenon (gas discharge)	Das
Front position lights	incandescent	H6W
Front direction indicator lights	incandescent	21W
Side direction indicators	incandescent	T4W
Taillights	LED	
Rear fog lights	incandescent	H21W
Reverse gear	incandescent	H6W
License plate lights	incandescent	R5W
Auxiliary stop light	LED	
Dome light	incandescent	10W
Spotlight	incandescent	6W
Glove compartment light	incandescent	W5W
Courtesy light	incandescent	W5W
Luggage compartment light	incandescent	W5W

Replacing a fuse

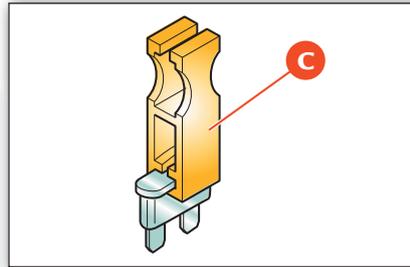
When an electrical device is not working, check that the corresponding fuse is not blown.

A - Unblown fuse.

B - Blown fuse.



To remove fuses, use the pliers **C** in the fuse box in the passenger compartment behind the small door on the dashboard, on the left of the steering wheel.



Fuse colors

	Ampere
dark yellow	5
brown	7.5
red	10
light blue	15
yellow	20
white	25
green	30

Maxi fuse colors

	Ampere
yellow	20
green	30
orange	46
red	50
blue	60

If the problem persists, contact your
AUTHORIZED FERRARI DEALER.

When replacing a fuse, always use fuses of the same amperage (same color).

The tool bag contains spare fuses.

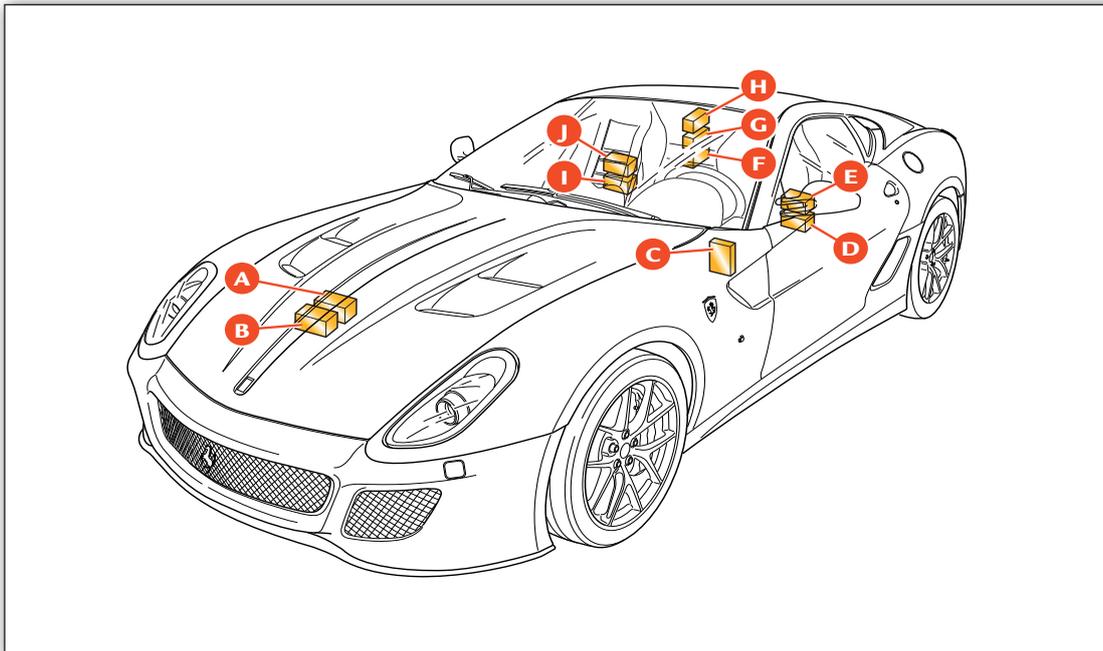
Location of the fuse and relay boxes

A, B - Fuses and relays in the engine compartment **F, G, H** - Fuses and relays in the luggage compartment

C - Body Computer fuses and relays

I, J - Fuses and relays in the passenger compartment, passenger side

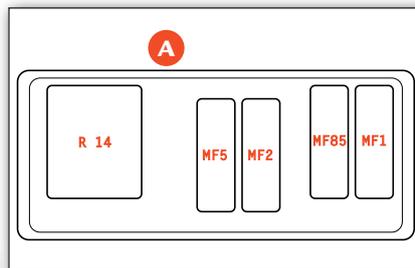
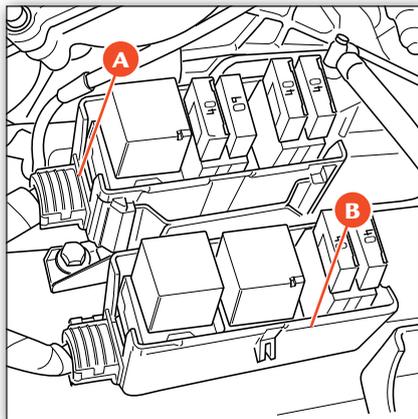
D, E - Fuses and relays in the passenger compartment, driver side



Fuses and relays in the engine compartment

To access these fuses:

- open the engine compartment (see “Engine Compartment - Opening” on page 53)
- remove the box covers **A** and **B**.



The box **A** contains the following relays (**R**) and maxi-fuses (**MF**):

Ref.	Amp.	Use
R14	50	air pump
Ref.	Amp.	Use
MF5	40	+30 A.C. unit
MF2	60	+30 air pump
MF85	40	passenger compartment connected devices 2
MF1	40	+30 ABS (pump)

Only open the boxes containing the fuses that need to be checked, to avoid damaging other components.

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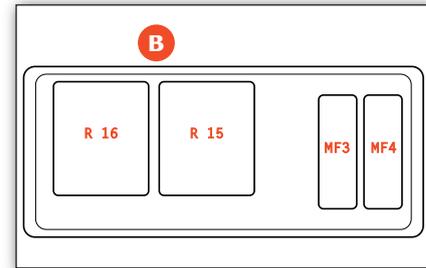
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The box **B** contains the following relays (**R**) and maxi-fuses (**MF**):

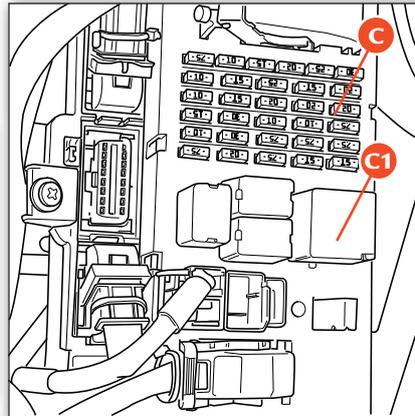
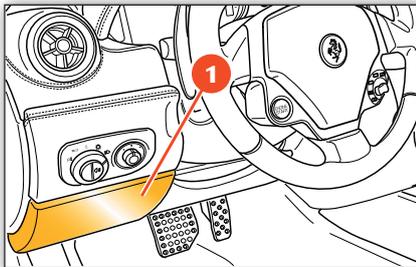
Ref.	Amp.	Use
R16	50	LH fans
R15	50	RH fan

Ref.	Amp.	Use
MF3	40	+30 RH fans
MF4	40	+30 LH fans



Body Computer fuses and relays

To access these fuses, remove the door **1** by undoing the two fastening screws

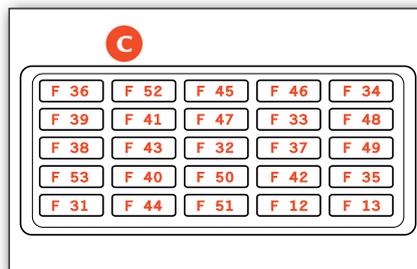


Only open the boxes containing the fuses that need to be checked, to avoid damaging other components.

The box **C** contains the following fuses (F):

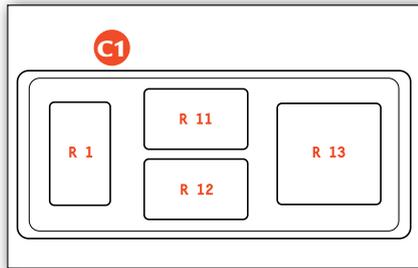
Ref.	Amp.	Use
F36	10	+30 glove compartment motor
F52	15	driver seat heating (INT/A connected device relay)
F45	25	(not used)
F46	15	(not used)
F34	20	(not used)
F39	10	+30 for NIM, NCL, diagnostic socket EOBD, CSA, CAV, radio/NIT, telephone option
F41	15	(not used)
F47	20	(not used)
F33	20	(not used)
F48	20	(not used)
F38	15	+ 30 ratio motor for luggage compartment lock
F43	30	windshield wipers/washer (INT/A connected device relay)
F32	10	+30 dome lights
F37	10	+15 NQS, +15 CLA (NO), third stop
F49	7.5	+15 for CSC, CSP, NIM, NCL, radio/NIT, CEM, CRP, telephone option, dome light panel, windshield wiper controls, steering column adjustment

Ref.	Amp.	Use
F53	10	+30 rear fog light
F40	30	+30 heated rear window (INT/A relay)
F50	7.5	+15 airbag system
F42	7.5	+15 NFR
F35	7.5	+15 CLA (NC), IFR, engine signal socket, relay coils (headlight washer, reverse gear, high beams)
F31	7.5	INT/A for A.C. unit, NBC
F44	20	+30 cigarette lighter, passenger seat heating (INT/A connected device relay)
F51	7.5	+15 NCR, F1 control panel
F12	15	+30 RH low beam
F13	15	+30 LH low beam



The box **C1** contains the following relays (**R**):

Ref.	Amp.	Use
R01	20	low beams
R11	30	heated rear window
R12	30	connected devices 1 (controlled by INT/A ignition switch)
R13	50	connected devices 2 (NBC-controlled) (option)



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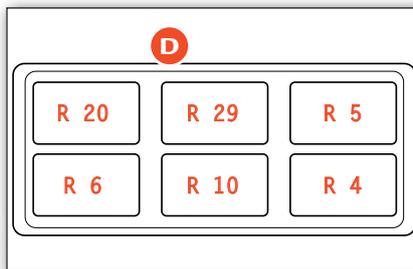
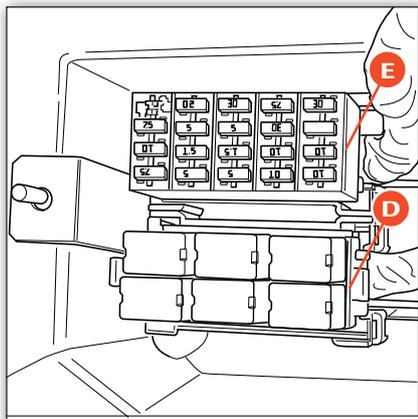
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Fuses and relays in the passenger compartment (driver-side)

To access these fuses:

- lift the passenger compartment trim panel, behind the driver's seat
- remove the box covers **D** and **E**.



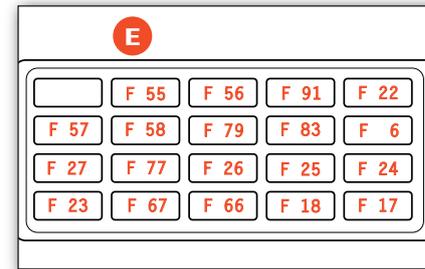
The box **D** contains the following relays (**R**):

Ref.	Amp.	Use
R4	20	A.C. compressor
R10	20	left-hand injection
R6	20	high beams
R5	30	headlight washer
R29	20	glove compartment motor
R20	20	side marker

Only open the boxes containing the fuses that need to be checked, to avoid damaging other components.

The box **E** contains the following fuses (**F**):

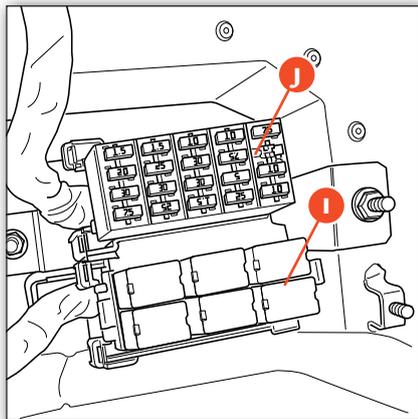
Ref.	Amp.	Use
F55	20	+30 steering column adjustment (only with basic seat version)
F56	30	+30 passenger seat adjustment
F91	7.5	+30 NAP (electronics)
F22	30	LH main injection relay
F57	7.5	+15 alternator, NVO, start button
F58	5	+30 NTP
F79	5	+30 NQS
F83	30	+30 NPG power supply
F6	25	+30 from ignition switch
F27	10	+15 LH injection
F77	15	+87 LH oxygen sensor main relay
F26	15	+87 injectors main relay, LH coils
F25	10	solenoid valves, air flow meter, LH diagnostic pump
F24	10	+87 LH main relay
F23	7.5	+30 LH injection
F67	5	+30 front RH - rear LH side marker
F66	5	+30 front LH - rear RH side marker
F18	10	+30 RH high beam
F17	10	+30 LH high beam



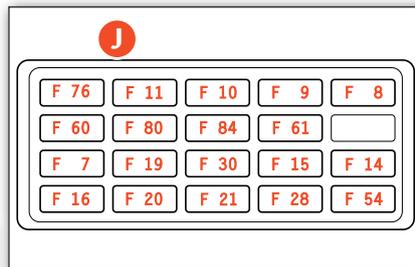
Fuses and relays in the passenger compartment (passenger-side)

To access these fuses:

- lift the passenger compartment trim panel, behind the passenger seat
- remove the box covers **J** and **I**.



Only open the boxes containing the fuses that need to be checked, to avoid damaging other components.



The box **J** contains the following fuses (**F**):

Ref.	Amp.	Use
F76	15	+87 RH oxygen sensor main relay
F11	15	+87 RH injectors main relay, coils
F10	10	+87 main relay, air flow meter, RH solenoid valves
F9	10	+87 RH main relay (pin F03)
F8	7.5	+30 RH injection (pin F62)
F60	20	+30 NPC, NPP door lock actuator
F80	25	+30 Hi-Fi system (bass-box and subwoofer)
F84	30	+30 NPP power supply
F61	7.5	+30 NAG (electronics)
F7	30	+30 injection main relay, RH main coil relay
F19	30	+30 starter motor

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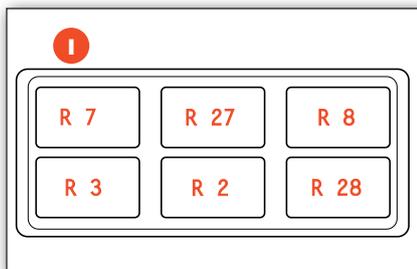
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Ref.	Amp.	Use
F30	30	+30 driver seat adjustment (and steering column adjustment, with Full Electric seats only)
F15	5	+15 weight sensor ECU (only for the USA)
F14	10	+15 RH injection (coils, fuel pumps relays)
F16	7.5	+30 A.C. compressor
F20	25	+30 headlight washer
F21	15	+30 horns
F28	25	+30 ABS (solenoid valves)
F54	10	+30 ABS (electronics)
F56	30	+30 passenger seat adjustment (right-hand drive version only)
F83	30	+30 NPG power supply (right-hand drive version only)
F91	7.5	+30 NAP (electronics) (right-hand drive version only)



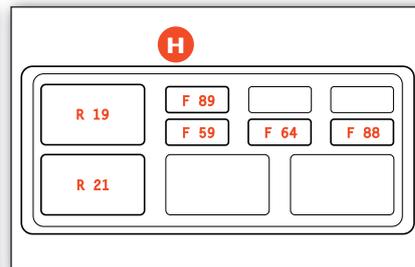
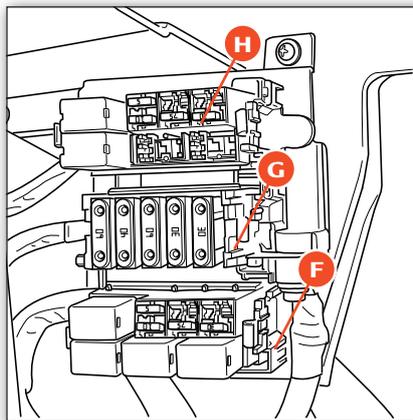
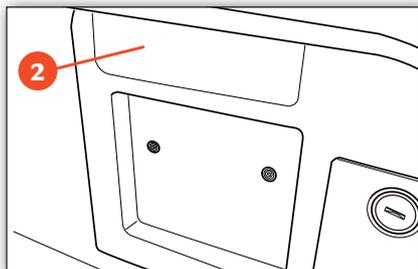
The box **I** contains the following relays (**R**):

Ref.	Amp.	Use
R7	30	starter motor
R27	20	devices cut-out upon ignition
R8	20	horns
R3	20	immobilizer
R2	20	RH main injection relay
R28	20	ignition cut-out with battery charger

Fuses and relays in the luggage compartment

To access these fuses:

- remove the door **2** on the right-hand side of the luggage compartment, by undoing the two fastening screws



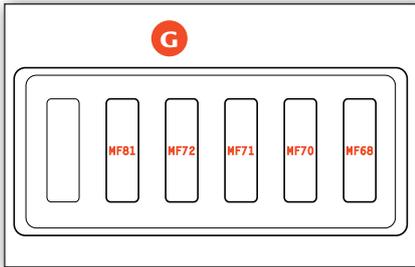
- remove the covers on the boxes **H**, **G** and **F**.

Only open the boxes containing the fuses that need to be checked, to avoid damaging other components.

The box **H** contains the following relays (**R**) and fuses (**F**):

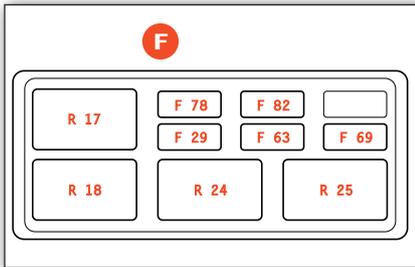
Ref.	Amp.	Use
R19	20	reverse gear
R21	20	fuel tank door

Ref.	Amp.	Use
F89	5	+15 NSP and NCS
F59	10	+30 fuel tank door
F64	7.5	+30 reverse gear, NSP
F88	30	+30 NCS



The box **G** contains the following maxi-fuses (**MF**):

Ref.	Amp.	Use
MF81	60	+30 passenger compartment connected devices 1
MF72	40	+30 luggage compartment connected devices (+side marker coil relay)
MF71	60	+30 passenger compartment connected devices 3
MF70	30	+30 F1 gearbox pump
MF68	30	+30 Hi-Fi system (amplifier)



The box **F** contains the following fuses (**F**) and relays (**R**):

Ref.	Amp.	Use
R17	20	RH fuel pump, 1 st speed
R18	20	RH fuel pump, 2 nd speed
R24	20	1 st speed fuel pump, LH bank
R25	20	2 nd speed fuel pump, LH bank

Ref.	Amp.	Use
F78	20	+30 LH fuel pumps
F82	5	+30 alternator sensing
F29	15	battery conditioner
F63	20	+30 RH fuel pumps
F69	25	+30 NCR

Replacing a wheel

If one or more wheels need to be replaced, proceed as follows:

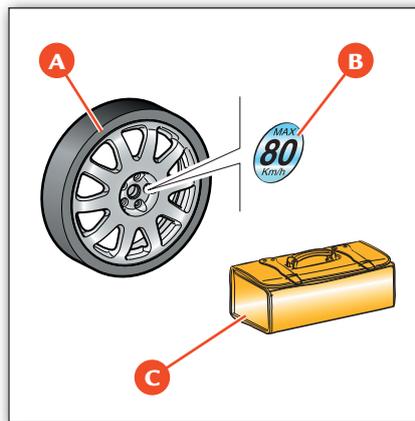
- Replace any wheel bolts that have damaged threads or tapers
- Carefully clean the wheel bolts before fitting
- Do not lubricate the contact surfaces between the wheel bolt and the wheel rim, and between the wheel rim and the brake disk.

In order not to remove the antilock coating, do not clean the wheel rim cones with solvents or aggressive products.

Space-saving spare wheel (optional)

On request, the vehicle comes with an optional kit containing:

- the spare wheel **A** with space-saving tire; label **B** indicates the maximum speed allowed of 50 mph (80 km/h)
- additional tool bag **C** containing the jack for raising the vehicle and the socket wrenches for operating the jack and tightening the wheel bolts.



⚠ The spare wheel must only be used for short trips in the event of an emergency.

When the spare wheel is fitted, never exceed the maximum speed of 50 mph (80 km/h) and drive carefully, especially around curves and when overtaking, avoiding sudden acceleration or braking.

Do not exceed the approved weight limits.

Do not fit snow chains on the spare wheel.

Never fit more than one spare wheel at a time.

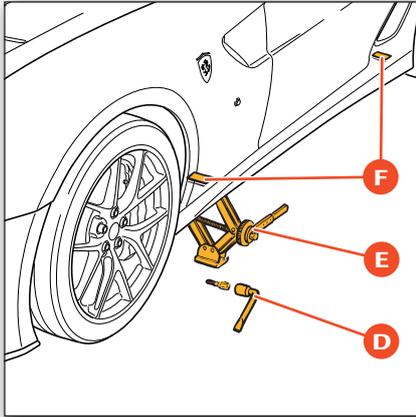
Failure to comply with these instructions could lead to loss of control of the vehicle and consequently damage to the vehicle and injuries to the occupants.

Replacing a wheel

- Position the vehicle on an even surface, then block the rear wheels by applying the parking brake.

⚠ Make sure that the vehicle is in a secure position by applying the parking brake.

- If necessary, switch on the hazard warning lights and place the hazard triangle at the required distance from the vehicle.
- Take the spare wheel and tools out of the luggage compartment.
- Loosen the five wheel fastening wheel bolts by approximately one turn, using the wrench supplied **D**.
- Place the base of the jack **E** on flat firm ground under one of the lifting points **F** on the underfloor as shown in the figure.
- Raise the vehicle carefully, using the jack, until the wheel is lifted off the ground.



⚠ If the jack is not positioned correctly, the vehicle could slip off.

Make sure that no part of the body is underneath the vehicle while changing the wheel.

The supplied jack must only be used for changing wheels.

- Unscrew the five bolts and remove the wheel.
- Fit the uninflated space-saving spare wheel.

- Screw the bolts into place but do not tighten them.

⚠ Inflate the space-saving spare wheel before lowering the vehicle to avoid damaging the rims.

- Inflate the space-saving spare wheel using the inflation kit (page 144).

⚠ The kit must be used in “tire inflation” mode. Refer to the instruction manual supplied with the kit.

- Inflate the spare wheel to the indicated pressure (see page 28).
- Lower the vehicle and remove the jack.
- Tightly fasten the bolts, alternately going from one bolt to one that is diametrically opposite.

As soon as possible, secure the stud bolts with the torque wrench and tighten them to a torque of 73.76 ft. lbs. (100 Nm).

⚠ The spare wheel does not have a tire pressure monitoring sensor (see label on spare wheel tool bag). After fitting, it is not checked by the system, but complies with international regulations ECE R64/01.

After fitting, we recommend that you go to the nearest **AUTHORIZED FERRARI DEALER**.

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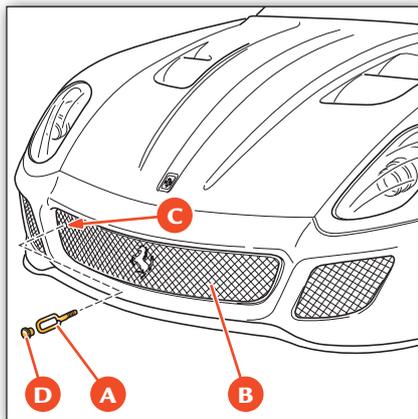
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Towing

When towing the vehicle, use only the attachment point provided for the towing hook **A** inserted in housing **C**.

Proceed as follows:

- Take tow hook **A** out of the tool bag.
- To access housing **C**, remove grille **B** by unscrewing the 6 fastener screws.
- Remove the cap **D** from seat **C**.
- Tightly screw tow hook **A** into housing **C**.



- Request neutral (gearbox in “N” position).

- ⚠ While towing the vehicle, you must comply with road regulations.
 - ⚠ Do not tow the vehicle using the hook attached to the suspension levers, or wheel rims but only to the tow hook properly fitted in place.
- Keep the key in position **II** to enable the lights to work and prevent the steering wheel from locking if it is turned; when towing the vehicle, do not start the engine.

Remember that when the engine is turned off, the power steering and brake servo functions do not work.

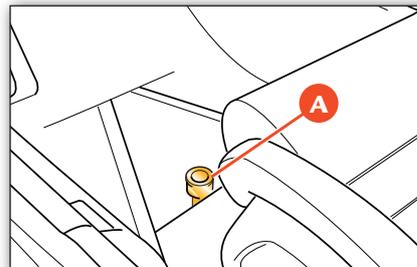
Fuel inertia switch

The fuel inertia switch is a safety device which is designed to deactivate the fuel pump relays if a collision occurs.

A symbol appears on the TFT display (see page 92) and the hazard warning lights come on to indicate that the switch has been activated.

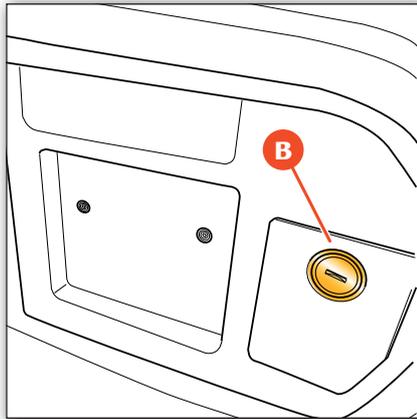
When the fuel inertia switch is activated, the doors are also unlocked (if locked) and the central dome light comes on.

- ⚠ The fuel pump relays can be reactivated by pressing the button **A** under the driver's seat.



Battery master switch

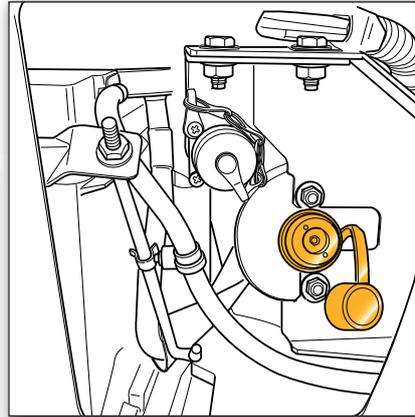
It is located on the right-hand side of the luggage compartment. To access it, remove the small door **B**.



Use the battery master switch to cut off the power supply from the battery to the electrical system.

To disconnect the battery, move the switch counterclockwise using a TORX T40 wrench.

⚠ The battery master switch must be used only if it is not possible to connect the battery conditioner.



Disconnecting the battery

Before disconnecting the battery, deactivate the electronic alarm using the remote control.

⚠ Never disconnect the battery from the electrical system when the engine is running.

Before disconnecting the battery, lower the side windows by at least 0.78-1.18 in. (2-3 cm) to avoid damaging the weather strips when opening and closing the doors.

⚠ The windows must remain lowered until the charged battery is reconnected. If the battery is discharged and the windows are fully up, only open the doors when strictly necessary and take great care; do not close them again until the windows can be lowered.

We strongly recommend using the battery conditioner if the vehicle is going to left unused for a long period (see page 168).

Reconnecting the battery

Fit the TORX T40 wrench into the switch and turn it clockwise until it stops.

Each time the battery is reconnected, do the following before starting the engine:

- close both doors and close the luggage compartment lid; unlock and lock the doors using the remote control; open the luggage compartment lid using the remote control;
- adjust the clock (date and time on instrument panel)

- close both doors and fully raise the driver side and passenger side windows to their upper limit; check that the windows move down to the “target position” when the doors are opened.

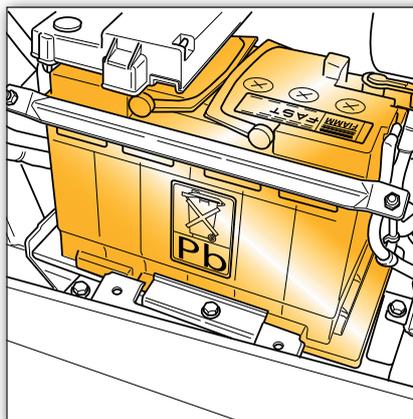
⚠ Before starting the engine, wait at least 60 second with the ignition key in position II to allow the electronic system that controls the motor-driven valves and the AC ECU to run a self-acquisition process.

During this period, do not activate any devices.

The Motronic ECU self-acquisition cycle will only function correctly when the intake air temperature is above 41 °F (5 °C). After removing the battery from the vehicle or disconnecting it from the electrical system using the battery master switch, it is important to check that the external temperature is within the indicated values when reconnecting before performing the self-acquisition cycle.

Checking the battery

The battery is positioned on the right-hand side of the luggage compartment.



The vehicle is equipped with a sealed lead acid battery that does not require maintenance.

⚠ The battery does not need topping up with distilled water or sulphuric acid.

- Periodically check that the terminals and posts are clean and firmly secured.

- Visually inspect the outer casing for any cracks.
- If the battery overcharges, it will wear out quickly. Have the vehicle electrical system checked if the battery tends to discharge easily.

⚠ Keep the battery away from sources of heat and do not use open flames or create sparks near it.

Battery conditioner

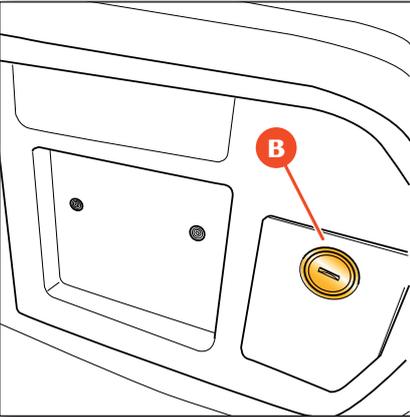
The vehicle is equipped with a battery conditioner to maintain and recharge the battery.

Using the battery conditioner will help extend the life of the battery.

The device is kept in a pocket inside the car cover bag supplied with the vehicle.

The battery conditioner connection socket is located on the right of the luggage compartment behind cover **B**.

⚠ Place the battery conditioner where it can be easily seen away from heat sources and out of childrens' reach.

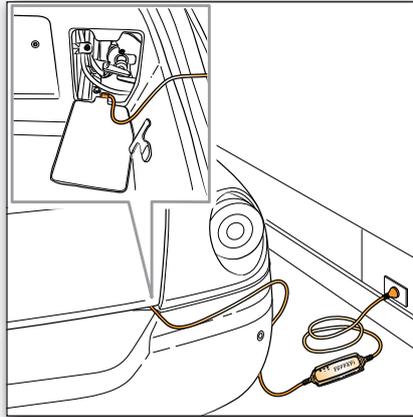


After connecting the battery conditioner to the socket in the vehicle, run the connection cable beneath the luggage compartment lid, in the outer rear corner.

Do not run the connection cable out of the vehicle in positions other than that indicated to prevent damaging the seals and/or the cable.

If you do not plan to use the vehicle for over a week, we recommend you connect the battery conditioner to keep the battery in working order.

⚠ The engine cannot be started as long as the battery conditioner is connected to the vehicle socket.



Additional technical information on the use of the device can be found in the manual provided inside the pocket of the car cover bag. Use the battery conditioner only as instructed in the manual.

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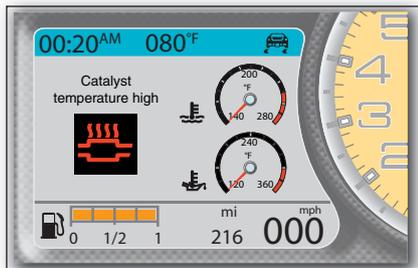
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Exhaust system overheating alarm devices

If the engine is running unevenly resulting in exhaust system overheating, the “Slow Down” function is activated: a special symbol (see page 93) appears on the TFT display accompanied by a message. The message varies according to three alarm levels: **catalyst temperature high**, **catalysts temp. too high**, **catalysts temp. sensor fault**.

Displaying of the message is controlled by the thermistor via the engine control ECU.



⚠ Incorrect use of the vehicle may cause the “Slow Down” function to be activated.

⚠ If the temperature is **high**:
slow down immediately so that the exhaust system temperature decreases.

⚠ If the temperature is **too high**:
the temperature in the catalytic converters has reached a dangerous level and could damage them; if you continue to drive, the engine control ECU intervenes and reduces the torque produced by the engine.

The torque limit remains active until the catalytic converter temperature goes down to normal operating values.

⚠ If “catalysts temp. sensor fault” information is displayed:

- the engine control ECU intervenes and reduces the torque produced by the engine
- the driver must slow down and slowly drive to the nearest **AUTHORIZED FERRARI DEALER** to have the engine parameters checked.

⚠ If the OBD warning light (see page 98) illuminate at the same time as the “Slow Down” message, go to the nearest **AUTHORIZED FERRARI DEALER** to have the ECU error memory checked. Do not proceed in any other way.

Engine malfunction alarm devices

If the OBD “On board diagnostic system” warning light **A** flashes or illuminates when the engine is running, it indicates that the engine or the emission control systems may be malfunctioning.

The electronic system detects and isolates the error preventing damage to the engine or the production of harmful emissions.



⚠ When the “On board diagnostic system” warning light illuminates, engine performance may be considerably reduced.

Drive carefully, avoiding sudden accelerations and high speeds.

Contact your **AUTHORIZED FERRARI DEALER** immediately.

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Replacing the brake pads and discs

Brake pads

The front brake pads have a wear sensor connected to the brake warning light; if this warning light illuminates or braking is not even, have the pad thickness and the state of the braking surfaces checked.

The minimum brake pad thickness is 0.12 in./3 mm (thickness of the friction material only).

Replacing brake pads

When the brake failure warning light illuminates, it means that the front brake pads are excessively worn and must be replaced immediately.

 In order to ensure the quality of the components and accurate installation, we recommend that you have the procedure performed by an **AUTHORIZED FERRARI DEALER**.

To ensure proper breaking-in of the pads following replacement, avoid sudden braking until the new pads are seated properly (approximately 186 mi/300 km).



Use of the vehicle

ON THE RACE TRACK:

before using the vehicle in heavy duty conditions on the race track after replacing the brake pads, do the following:

16 consecutive stops from 50 down to 19 mph (80~30 km/h) followed by 2 minutes driving without braking;

16 consecutive stops from 75 down to 19 mph (120~30 km/h) followed by 3 minutes driving without braking;

6 stops from 99 down to 19 mph (160~30 km/h), 25 seconds apart, followed by at least 3 minutes driving without braking;

3 consecutive stops from 130 down to 19 mph (210~30 km/h) followed by 3 minutes driving without braking.

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Glossary

7. Index



Warranty Book

Maintenance

Level checks

Wheels and tires

Care of the seat belts
and pretensioners

Cleaning the vehicle

If the vehicle is stored
for long periods

Warranty Book

The vehicle comes with a “Warranty Book”.

This contains the vehicle’s warranty terms and conditions.

 **The warranty book also contains special blank spaces where your AUTHORIZED FERRARI DEALER can register the regular maintenance services performed, as indicated in the maintenance schedule.**

Maintenance

It is essential to always keep the vehicle in proper working order to ensure a long working life and to prevent any running problems, caused by negligence or lack of maintenance, and consequently to avoid hazardous situations.

All repair work on any safety system component must be performed by an AUTHORIZED FERRARI DEALER.

Maintenance schedule

At prescribed intervals, an AUTHORIZED FERRARI DEALER must perform all the fine-tuning and maintenance checks indicated in the “Warranty Book”.

It is however advisable to report any small fault which occurs when using the vehicle (e.g., small leaks of essential fluids) to your AUTHORIZED FERRARI DEALER immediately and not wait until the next service is due to correct the problem.

Periodic maintenance services must be performed at least once a year even if the specified mileage limit has not been reached (see “Yearly Maintenance” in the “Warranty Book”).

Chassis and bodywork maintenance

The vehicle chassis is entirely made of aluminium, and was designed using the technology referred to as “**Space Frame**”.

The chassis therefore has technological and manufacturing specifications that require that any operation be performed by staff specially trained to work with this innovative technology.

It is of crucial importance to use equipment tested by FERRARI if the repair work is to be performed in accordance with rules of good workmanship. Proper execution of repair work helps to ensure that the value of the vehicle is preserved and the safety standards are maintained.

If the chassis is damaged in an accident, FERRARI advises customers to contact your AUTHORIZED FERRARI DEALER who will perform the necessary safety checks.

We recommend that you use original FERRARI spare parts, which can be obtained from an AUTHORIZED FERRARI DEALER.

The chassis, under standard conditions of use, requires no maintenance; it is however advisable to contact your AUTHORIZED FERRARI DEALER at the intervals indicated in the “Warranty Book” in order to have it checked.

Level checks

The level checks must be performed at the intervals indicated in the “Warranty Book” or, in any case, before starting a long journey.

 All the materials used for the following operations (e.g., cloths soaked with oil or grease, pans, etc.) must be disposed of in compliance with state, provincial and local environmental protection regulations.

Open the engine compartment lid

We recommend that you use only lubricants and/or fluids recommended by FERRARI (see the “Recommended lubricants and fluids” table).

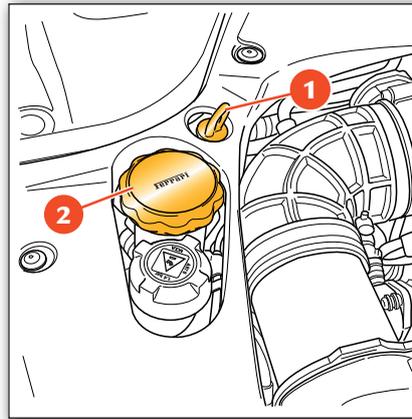
Engine oil

Proceed as follows:

- A. Run the engine until an engine oil temperature of 185 - 194 °F (85 - 90 °C) is reached.
- B. Run the engine at 4,500 RPM for 1 minute.
- C. Let the engine idle for 2 minutes and then check the oil level (without turning the engine off).

-  If the oil level is checked after 3 minutes (not the 2 min. specified above), repeat stages B. and C. before checking the oil level.

- D. Remove the filler cap **2**, remove the dipstick **1** from the tank and check the level: it should be between the **MIN** and **MAX** notches on the dipstick.



Difference between **MAX** and **MIN** =
0.4 US Gallon (1.5 liters).

- E. If level is low, top up with specified oil. The oil level must be between the **MIN** and **MAX** notches. Screw cap **2** back on tightly.

-  If the oil level is below the “MIN” notch, top it up and then have the system checked by your **AUTHORIZED FERRARI DEALER**.

- F. Run the engine at 4,500 RPM for 1 minute.

- G. Let the engine idle for 2 minutes and then check the oil level (without turning the engine off).

-  If the first check was performed between the 2nd and 3rd minutes, therefore the second check must also be carried out at the same time interval.

For example, if the first check was performed at approximately 2' 30", then the second check must also be performed at approximately 2' 30".

- H. Remove the filler cap **2**, remove the dipstick **1** from the tank and check the level: it should be between the **MIN** and **MAX** notches on the dipstick. Screw the cap **2** back on tightly.

 Top up with due care to avoid pouring the oil out of the filler neck.

Gearbox and "F1" gearbox system oil

We recommend that you have the oil level checked by an AUTHORIZED FERRARI DEALER or by skilled staff.

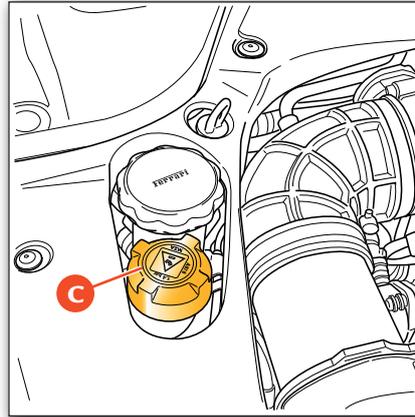
Coolant

⚠ This procedure must always be performed when the engine is cold. Never remove the cap C from the expansion tank when the engine is running or hot.

- Remove the cap **C** from the expansion tank in the engine compartment and check that the level is at approximately 1.57 in. (40 mm) from the top of the filler neck.
- If the level is low, top it up with the recommended fluid.

If frequent top-ups are required after short trips, have the system checked by your AUTHORIZED FERRARI DEALER.

- Screw the cap **C** back on tightly.



Filling the cooling system

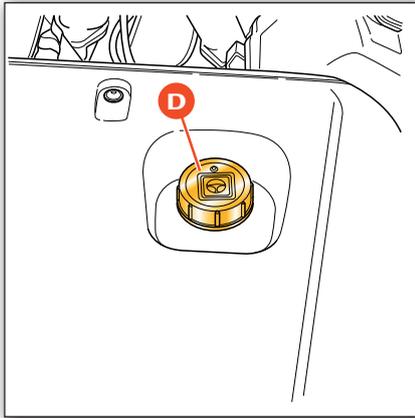
To fill the cooling system (this operation must be performed when the engine is cold), proceed as follows:

- Detach the bleeder pipe on the radiator and hold it lifted, so that it is at the same height as the filler neck, in order to prevent spilling.
- Turn the ignition key to position **II** and select the maximum temperature on the air conditioning and heating system.
- Completely unscrew the bleeder cap on the heater inlet pipe.

- Slowly pour in the indicated quantity of coolant through the expansion tank filler neck, until the fluid comes out from the open bleeder on the radiator. Reconnect the radiator bleeder pipe and complete the filling procedure until reaching the **MAX** level. If water comes out of the heater pipe, close the cap.
- Close the bleeder cap on the heater pipe.
- Close the filler neck cap.
- Open the heater by selecting the max. temperature for the air conditioning and heating system.
- Start the engine and let it idle.
- Slowly open the filler cap and top up until the fluid is visible in the filler neck and until the radiator cooling fan activates.
- Check that all the vents are blowing hot air, at the same temperature (~122 °F/50 °C).
- After the coolant level in the filler neck has stabilized, close the filler cap.
- Bring the engine speed up to 3,000 RPM for a minute and then back to idle.
- Bring the engine speed back to 3,000 RPM, close the heater and, after one minute, run the engine at idle speed again.

- Stop the engine and let it cool down.
- Check the level once again and, if necessary, top up as indicated above (without bleeding).
- Screw on the filler neck cap tightly.

Hydraulic steering system oil



The level check must be performed with the engine warm, after having driven at least 9.3 mi. (15 Km.), and with the vehicle parked on a flat ground.

Remove the cap **D** from the tank in the engine compartment and check that the level is between the **MIN** and **MAX** notches on the dipstick.

The oil level must be checked with the cap resting on the tank.

Top up if necessary with the recommended oil up to the **MAX** level.

Screw the cap **D** back on tightly.

 Do not dispose of used fluid in the environment.

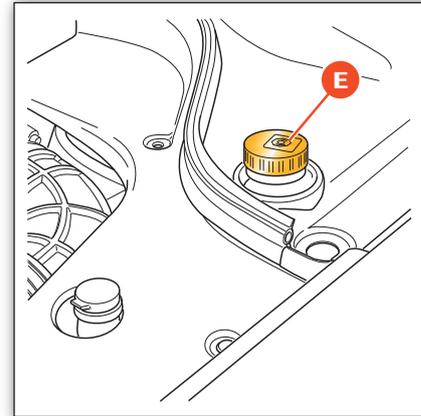
Brake fluid

- Check that the fluid in the tank is near the **MAX** level.
- If the level is low, unscrew the cap **E** and top up with the recommended oil, taken from a sealed container.

Clean the cap **E** before removing it.

 Do not dispose of used fluid in the environment.

 For more information on how frequently brake fluid should be replaced, refer to the "Maintenance Schedule".



 The fluid in the brake system may damage plastic, rubber and painted parts and is highly dangerous if it comes into contact with the eyes or the skin.

In case of contact, wash the affected part thoroughly with running water. To avoid any risk, always use protective goggles and gloves.

Keep out from childrens' reach!

The symbol on the tank cap indicates that the system contains synthetic fluid.

⚠ The use of mineral-based fluids will irreparably damage the system rubber gaskets.

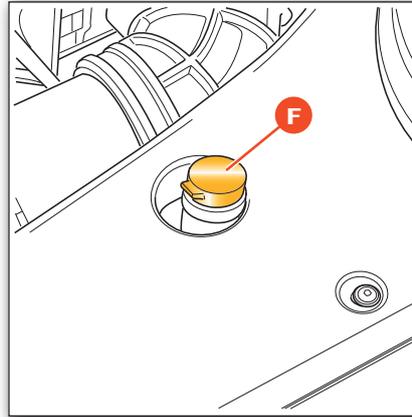
Do not use fluids other than those already contained in the system for topping up.

- After topping up, screw the cap **E** back on tightly.

Windshield and headlight washer fluid

The windshield and headlight washer fluid tank can be accessed by lifting the engine compartment lid.

- Lift the cap **F** and fill the tank with the recommended fluid (see the “Recommended lubricants and fluids” table on page 30) until it can be seen in the fluid filling neck.
- Close cap **F**.



Wheels and tires

To help ensure maximum performance and tire life and to permit the best tire adjustment on the wheel rim, it is important to comply with the following instructions for the first 125-185 mi (200-300 km) with new tires:

- avoid sudden acceleration
- avoid sharp braking and steering
- drive at moderate speed on straight roads and on curves.

How to use the tires

To help ensure safe driving, the tires must be kept in good condition. Always check your tires regularly for wear and damage.

The inflation pressure must correspond to the specified values and must be checked only when the tires are cold since tire pressure increases as tire temperature increases.

Never reduce the pressure if the tires are hot.



Periodically check the tire pressure. Driving with the tires inflated to the correct pressure helps to reduce fuel consumption.

Low tire pressure can lead to overheating, internal damage and even destruction of the tires.



Inflating the tires to a pressure other than that prescribed (see table on page 28) will render the TPMS monitoring system inaccurate.

Sudden impact with pavements, potholes and other obstacles of various types as well as long trips on rough roads can cause damage to the tires that is not

always visible to the naked eye.

Check the tires regularly for any signs of damage (e.g., scratches, cuts, cracks, bulges, etc.).

If sharp objects penetrate the tires, they can cause damage which is only visible when the tire is removed.

Have any damage inspected by an expert as it may considerably reduce tire life.

Remember that tires deteriorate over time even if they are rarely used or not used at all.

Cracks in the tread and side walls, possibly accompanied by bulging, are sure signs of aging.

 **YOUR AUTHORIZED FERRARI DEALER** has the necessary equipment for tire replacement.

Have the tires replaced by your **AUTHORIZED FERRARI DEALER** who has the equipment needed to avoid damage to the sensor inside the wheel rim which could be caused by carelessly performed procedures.

Ensure that tires are not kept in storage for more than 4 years. The maximum limit for keeping tires in storage is 4 years provided they are kept away from sunlight, bad weather and damp and where there is a low oxygen content.

YOUR AUTHORIZED FERRARI DEALER can certify whether aged tires are suitable for use. In any case, tires that have been on a vehicle for more than 3 years must be checked by your **AUTHORIZED FERRARI DEALER**.

 We recommend replacing tires at least every 4 years, even with only minimal use. Frequent use in maximum load conditions and at high temperatures may accelerate aging.

Never fit tires of uncertain origin.

 The tires are of the “directional” type and there is an arrow marked on their side wall to indicate the direction in which they must rotate or which side is the outer side. When replaced, maximum performance levels can only be ensured if the rotation direction corresponds with the direction indicated by the arrow. Tires on the same axle must always be replaced in pairs.

Regularly check the tire tread (minimum acceptable depth 0.09 in. / 2.2 mm). As the tread wear increases, there is a greater risk of skidding.

 Drive carefully on wet roads to reduce the risk of “aquaplaning”.

Wheel alignment check and adjustment

When you notice unusual wear of the tires and in any case, at the intervals prescribed in the “Warranty Book”, have your **AUTHORIZED FERRARI DEALER** check the vehicle alignment.

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Maintenance of seat belts and pretensioners

- Periodically check that the anchor points are tight and that the seat belt is in perfect condition and slides smoothly.
- The seat belt must be kept clean; the presence of any dirt could prevent the seat belt retractor from working properly.
- To clean the seat belt, wash it by hand with mild soap and water and let it dry. Do not use strong detergents, bleach or aggressive solvents, as they can weaken the fibers.
- Make sure the retractors do not get wet: proper functioning is only ensured if they are kept dry.
- The pretensioner requires no maintenance or lubrication. If immersed in water or mud, the pretensioner must be replaced.
- The pretensioner must be replaced at the intervals indicated in the “Warranty Book”.

Cleaning the vehicle

Cleaning the exterior



All the materials used for the following operations (e.g., cloths soaked with oil or grease, pans, etc.) must be disposed of in compliance with the environmental protection regulations.

Proper care of the vehicle on the part of the owner is essential for long vehicle life.

Here is a list of the main precautions to be taken.

- Certain parts of the vehicle should not be left wet or dirty for long periods of time: in particular, the passenger compartment floor and the luggage compartment must always be kept clean and dry. The draining holes under the doors should be kept unclogged to allow any water to drain.
- The underbody and the lower surfaces of the vehicle should be cleaned regularly, and more frequently (at least once a week) if the vehicle is used on salty or rough roads. The vehicle should be cleaned thoroughly and carefully: cleaning that merely wets encrusted mud without removing it completely can

prove damaging.

- The vehicle must be washed regularly with suitable equipment. Do not use very hot water or steam to clean the paintwork and the lower surfaces. It is advisable to soften any dirt first, then remove it with a jet of water at room temperature.

Do not use aggressive products to clean the windows.

The use of aggressive products could seriously damage the bodywork.

- Do not wash the vehicle in direct sunlight or when the bodywork is still warm: make sure that the jet of water does not blast the paintwork; wash the vehicle with a sponge and a mild soap and water solution; rinse the vehicle again with a jet of water and dry it with a chamois leather.

When the vehicle has been washed, apply slight pressure to the brake pedal at moderate speed before driving at a normal speed until the brake discs and pads have cleaned off.

In order to maintain the shine on the paintwork, polish it once or twice a year with products recommended by FERRARI.

- Any areas that are cracked or chipped by stones, scratches or parking manoeuvres, etc., must be immediately repaired by an AUTHORIZED FERRARI DEALER.
- Do not park the vehicle in damp and/or unventilated areas for long periods of time.

Do not use special detergents for removing stubborn deposits on the wheel rims.

The use of harsh products may damage the appearance of the brake disc covers.

Cleaning and care of optional matte paintwork

⚠ Matte paintwork must NOT be polished with any type of product.

Owners must take great care of vehicles with matte paintwork (optional).

Here is a list of the main precautions to be taken:

- Wash the vehicle using a steam cleaner and rinse with demineralised water only.
- The vehicle must be dried using an automatic dryer or compressed air. Manual drying can ONLY be performed using a 3M microfibre yellow cloth that is clean and soaked in demineralised water in the areas where limescale deposits are present. The cloth must be kept in a special clean container.
- To clean any grease or oil marks, a 3M microfibre yellow cloth that is clean and soaked in R107/S solvent (heptane) can be used. A new cloth must be used which has not been previously soaked in demineralised water.
- Do not wash the vehicle in direct sunlight or when the bodywork is still warm.
- Do not apply stickers to the bodywork.

- Any areas that are cracked or chipped by stones, scratches or parking manoeuvres, etc., must be immediately repaired by an AUTHORIZED FERRARI DEALER.

Cleaning of optional protective anti stone-chipping film

The film has been designed to help protect the bodywork: anything that damages the paint will also damage the film.

⚠ Do not pour denatured ethyl alcohol, acetone, isopropyl alcohol, heptane or substances that contain these compounds on the film.

- Do not apply adhesive elements on the film.
- When cleaning, do not use metal or abrasive substances in general and acid chemical compounds.

Avoid the film coming into contact with the brake fluid: the film will become opaque.

Nürburgring Silver, Avus White, Alloy Grey, Met Avio, Met Sky-Blue and Fuji White vehicles must be washed every month and waxed at least twice a year so that dirt, acid rain, pollutants, etc. do not penetrate the pores of the film and cause it to tarnish.

We recommended replacing the film every 24 months for Nürburgring Silver, Avus White, Alloy Grey, Met Avio, Met Sky-Blue and Fuji White vehicles which may become slightly tarnished due to dirt inside the pores of the film.

It should be noted that timely and accurate cleaning (monthly washing and waxing twice a year at least) will help prevent deterioration of the film.

Carbon parts

Have small scratches and marks on the carbon structure removed by an AUTHORIZED FERRARI DEALER only.

Improper operations may irreparably damage the carbon parts.

Do not use aggressive organic substances, such as: gasoline, kerosene, petroleum, acetone or solvents.

DO NOT lean against the vehicle especially if you are wearing clothes with buttons, buckles or are wearing rings, necklaces, etc. This may cause irreparable damage to the bodywork.

To use suitable products, contact your AUTHORIZED FERRARI DEALER.

Cleaning the interior

Cleaning and care of the leather upholstery

As indicated in the “Maintenance Schedule” (see the “Warranty Book”), proper and regular treatment, at least once a year, will help preserve the quality, natural characteristics and softness of the leather upholstery in your FERRARI.

With this in mind, specific leather care products are also available (“Cleaner” and “Cream”) both tested by FERRARI.

These products can be ordered through your AUTHORIZED FERRARI DEALER, both individually and as part of the “Care Kit” which includes the complete range of products for cleaning the vehicle.

For use of the “Care Kit” products, contact your AUTHORIZED FERRARI DEALER.

Never use harsh detergents, turpentine, liquid stain removers, gasoline, solvents and domestic cleaning products to clean leather as these will damage its natural properties.

Cleaning and care of the Alcantara® upholstery

 Do not use steam cleaners.

- Carefully dust the parts to be cleaned
- Use a soft cloth or sponge moistened with clean water
- Thoroughly wring out the cloth and wipe it over the entire Alcantara® area making sure you do not overwet it
- Repeat the procedure
- Let it dry completely
- To recondition the material, gently use a brush with soft bristles.

If the vehicle is stored for long periods

If the vehicle is not used for long periods of time, certain precautions should be taken:

- if possible, park the vehicle on a level surface, in a covered and well-ventilated area;
- keep the vehicle stationary by engaging a gear and do not use the parking brake;
- bring the tire pressure to 43.5 psi (3.0 bar) and periodically change the tire resting point on the ground;
- connect the battery conditioner as shown on page 169;

If you do not wish to connect the battery to the battery conditioner in order to keep certain devices functioning such as: radio station memory, alarm system, etc., the battery must be recharged at least once a month. If the vehicle is not used for long periods of time without connecting the battery conditioner, the battery must be recharged at least every three months.

- protect the vehicle with a breathable fabric cover and avoid materials that prevent any moisture on the bodywork from evaporating.

Before using the vehicle again after long periods of inactivity, adjust the tire pressure to the indicated pressure and check the fluid levels of all the systems.

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Abbreviation	Meaning
ABS	(Anti-lock Braking System) The ABS system is designed to help prevent wheel locking during braking so that vehicle handling can be maintained.
A.C.	Air Conditioning
ASR	Anti-skid regulation during acceleration.
Auto easy exit	Simplified function gear shifting. To exit “Auto easy exit” mode, simply operate one of the two shift paddles.
CST	Stability and Traction Control It consists of two systems: VDC and F1-Trac.
EBD	Electronic Brake-Force Distribution
ECU	Electronic Control Unit.
F1	Electronically-controlled gearbox, designed with the same technology as used in the racing sector.
F1-Trac	Traction control derived from the technologies used in the racing sector.
Manettino	The driving mode control switch on the steering wheel which allows the driver to use vehicle potential in a quick, intuitive way.
Performance Start	Strategy for performance starts from a stopped position in a controlled environment such as a racetrack.
TFT display	Multifunction color display on the instrument panel that provide vehicle information.
TPMS	Tire Pressure Monitoring System. Using special sensors fitted inside the wheel rims next to the air valve, the data measured is sent to an ECU. The data and messages are displayed on the TFT display.
Traction power	Force exerted by the vehicle on the road surface through the wheels; it indicates the grip.
VDC	Vehicle Dynamics Control performed through the braking system and engine torque.
Xenon headlights	Headlights on the front of the vehicle that produce a more intense beam by using a voltaic arc rather than an incandescent spiral.

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Equipment and options in FERRARI vehicle models may vary because of specific legal and market requirements.

FERRARI reserves the right to make any modification to the vehicle models described in this manual, at any time, for either technical or commercial reasons without any notice.

Contact the nearest AUTHORIZED FERRARI DEALER for any further information you may require.