



OWNER'S MANUAL
U.S. AND CANADA VERSION MODEL YEAR 2010

599 GTB
FIORANO

General considerations

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

It is equipped with sophisticated active and passive safety systems (described below). Unless otherwise and specifically provided for by FERRARI (see the Safety section) it is PROHIBITED to deactivate any safety system.

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

- The driver must be in good physical condition, and not under the influence of drugs or alcohol.
- The road regulations must be strictly observed.
- The common rules of caution must always be observed, in relation to the quality/performance of the vehicle, the places where you are driving and the contingent situations.

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

The vehicle MAY NOT be modified or tampered with for any reason whatsoever, as this would affect the standards required for certification and safety.

The owner of the vehicle is obliged to carefully maintain the vehicle in compliance with the recommended maintenance schedule.

The driver must always pay attention to the warnings signals in the vehicle, in particular to the dashboard warning lights. Even in cases where the warning lights do not indicate a situation of immediate danger, the driver must always be careful and consider the possible consequences of the malfunction and the type of information signaled.

Even in the event of routine operations, such as refueling, the driver must take all necessary precautions and check for any spilling of flammable liquid. These precautions must be taken even if the operation is performed by others. Before starting off, always verify that the door closing systems are functioning, not only by checking that the relative warning lights are off, but also by trying to operate them by hand.

The driver must be fully knowledgeable with the vehicle and its controls, so as to handle and drive it as required. Knowledge of the vehicle can be achieved/improved by attending the driving courses held by FERRARI, which are recommended.

The names taken from the sports and racing world (e.g., F1, SPORT, RACE) only refer to the technology from which they derive or to specific vehicle set-ups and they do not authorize the driver to behave improperly while driving.

These above only refers to some general issues that will be specifically dealt with in this Owner's Manual.

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 inquired: 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 our customers do not use fuel containing alcohol on FERRARI vehicles.



Because of the high power generated by the engine, we recommend that the vehicle only be used by experienced drivers.

Service

The information contained in this manual is necessary to get to know your vehicle, use it properly and keep it in good condition.

Strictly following the instructions contained in this manual will help you get the optimal results and satisfaction from your vehicle.

We also recommend you have all the service operations and checks performed by the AUTHORIZED FERRARI DEALERS, as they have skilled staff and suitable equipment.

See the “Sales and Service Organization” manual for the location of the AUTHORIZED FERRARI DEALERS.

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

Consulting the Manual

This manual refers to vehicles with two types of gearbox:

- Mechanical gearbox
- F1 electronically-controlled gearbox

Some information may therefore vary depending on the model.

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:

General

Provides general information about your vehicle.

Safety

Describes the main safety systems in the vehicle.

About your vehicle

Provides all necessary information to use the vehicle.

Advice for Emergency situations

Provides useful advice for solving problems that may occur.

Care of the Vehicle

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

Table of Notes

This table lists important notes contained in the Owner's Manual.

Glossary

Explains the main technical concepts.

Index

Allows you to quickly identify and locate the information required.

The important parts requiring particular attention are easily identifiable in the various sections.



Extreme caution required:
Failure to comply with the instructions could cause hazardous situations involving personal and vehicle safety!

Important note:
Warning aimed at preventing any damage to the vehicle and consequently hazards involving personal safety.



Warning for environmental protection:
Useful advice to help protect the environment.

Abbreviations/Meanings

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

A.C.

Air Conditioning

ABS

Anti-lock braking system for the wheels while braking

ASR

Anti-skid regulation during acceleration

F1-Trac

Traction control derived from the technologies used in the racing sector

ECU

Electronic Control Unit

F1

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

TFT

Thin Film Transistor

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

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. The AUTHORIZED FERRARI DEALERS will be glad to provide you with all the information about the 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

We recommend you use genuine FERRARI parts, which can be obtained from your AUTHORIZED FERRARI DEALER.

The FERRARI warranty may be voided if repairs are performed using parts that are not GENUINE FERRARI PARTS.

Warranty and Service Book

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

This contains the vehicle's warranty terms and conditions.

The Warranty and Service Book also indicates when periodic service is due according to the "MAINTENANCE SCHEDULE".

Vehicle event data

Your vehicle's driving and safety systems employ computers that monitor, and share with each other, information about your vehicle's operation. One or more of these computers may store what they monitor, 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.

"F1-SuperFast" gearbox

The vehicle may come equipped with an electronically-controlled gearbox system, controlled by means of the levers on the steering wheel.

The default setting for the F1 gearbox is always "AUTO" mode.

Every time the vehicle is started, the F1 gearbox is in the "AUTO easy exit" mode, unless the vehicle was in "AUTO" mode when it was turned off.

To exit the "AUTO easy exit" mode, operate one of the levers **UP** and **DOWN** (when 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. Therefore, 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, through integrated electronic engine and gearbox management, the **F1-SuperFast** 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 is reduced to 100 ms (measured as “acceleration gap”).

Environmental protection



The following chapter contains useful information for environmental protection.

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

Using your vehicle respecting the environment will be your contribution towards environmental protection.

Fuel consumption as well as engine, gearbox, brake and tire 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 to protecting the environment.
We therefore recommend that you 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 prudently 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 emission control and monitoring systems, which must always function properly.



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 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.

This vehicle has been constructed in compliance with the federal environmental and safety standards. Nevertheless, a few rules should be followed.

Particular attention must be paid to:

- Overheated components: high temperatures develop in the engine compartment in proximity of the exhaust system.
Do not park the vehicle on 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 additional heat shields or remove those fitted on the exhaust system.
Do not let flammable substances come into contact with the exhaust system.
- Moving parts on the vehicle, such as fan belts, etc. are always protected by appropriate systems.
Do not remove the guards or work on the moving parts without taking the due precautions.
- Pressurized systems on the vehicle, such as: the braking system, air conditioning and heating system, cooling system and lubrication system, which may generate pressure internally.
Do not carry out any work which could cause gas or liquids to escape risking injury to persons and damage.
- Exhaust gas generated by the running engine may be hazardous, especially in closed spaces. As well as consuming oxygen, the engine discharges carbon dioxide, carbon oxide and other toxic gases.
- The 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.
- The oils used may also be flammable: take the same precautions as necessary for fuel.
- The fluid contained in the battery is poisonous, corrosive and flammable. Do not let it spill or come into contact with the skin, eyes or objects. Do not use open flames or create sparks near the battery.

Always observe the various warnings contained in this manual.

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4. Advice for Emergency Situations

5. Care of the Vehicle

6. Table of Notes

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Vehicle keys

Alarm system

Emergency starting

Electronic alarm

Identification plates and labels

Dimensions and weights

Main engine specifications

Transmission ratios

Performance

Fuel Consumption

Electrical system

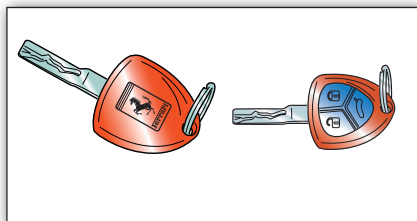
Wheels and Tires

Recommended lubricants
and fluids

Vehicle keys

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

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



In the event that the keys are lost or stolen, you can request a duplicate from your AUTHORIZED FERRARI DEALER (see section “Duplicating the keys” on page 14).



Make sure you record the code numbers in the space provided in the “WARRANTY AND SERVICE 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.

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

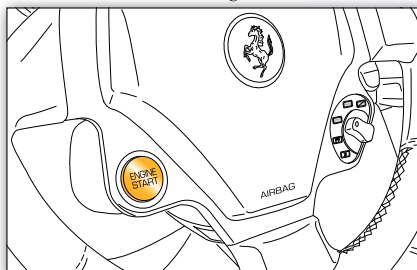
- 1) the device may not cause harmful interference
- 2) the device must accept any interference received, including interference that may cause undesired operation.

Any modification to the equipment not expressly authorized by the party responsible for compliance could void the user's authority to operate the equipment.

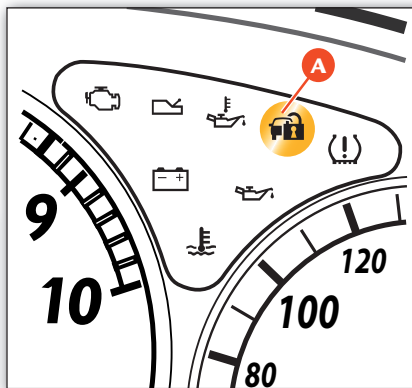
Operation

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

- When starting the engine, with the key in position **II** press the **ENGINE START** button on the steering wheel:

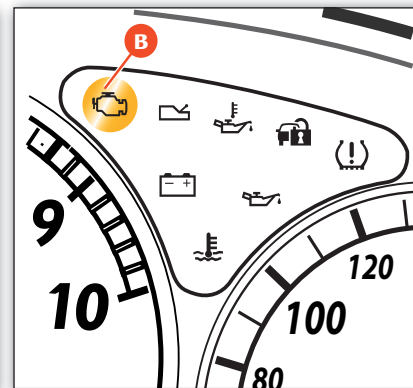


- 1) If the code is recognized, the **CODE** warning light **A** on the instrument panel turns off within one second, while the **OBD** warning light **B** turns off after about eighteen seconds, once the **ECU** has completed its diagnostic cycle. In these conditions, the protection system has recognized the key code and deactivated the immobilizer.



- 2) If the **CODE** warning light **A** remains on and the **OBD** warning light **B** does not turn off after the **ECU** has completed its diagnostic cycle, it means that the code has not been recognized. In this case, 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 provided.

If you are still unable to start the engine, use the emergency starting procedure (see page 15) and contact your **AUTHORIZED FERRARI DEALER**.



- While driving, with the ignition key in position **II**:
 - 1) If the **CODE** warning light **A** illuminates, it means that the system is performing a self-diagnostic cycle. At the first opportunity, you can stop and test the system: turn off the engine by moving the ignition key to position 0, then move 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 ECU.

 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 8 keys) on all the keys.

Contact your AUTHORIZED FERRARI DEALER 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.

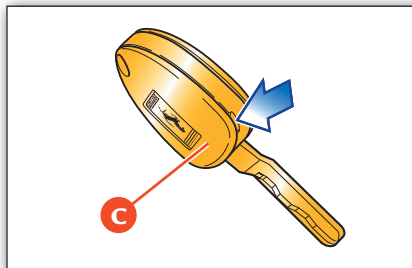
The codes of the keys that are not available when the new memorization procedure is performed will be deleted from the memory, in order to prevent that any lost or stolen keys are used to start the vehicle.

Replacing radio operated control battery

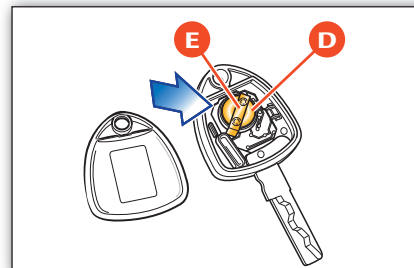
If you press one of the three buttons and this does not activate the corresponding function, before replacing the batteries, check for correct operation of the alarm system functions using the other remote control.

To replace the remote control battery:

- detach the key cover **C**, prying it off with a small screwdriver at the points indicated by the arrow



- extract the battery **D**, pushing it in the direction of the arrow to slide it off the retaining cover **E**



- fit a new battery of the same type, observing the indicated polarity
- refit the key cover **C**.

Do not use sharp tools to replace the cover and be careful to avoid damaging it.

 There is risk of explosion if the battery is replaced with an incorrect type.

Dispose of used batteries according to the instructions.

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.
- 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 solve the problem. Otherwise, you will have to perform the emergency starting procedure every time the engine is started.

Electronic alarm

The electronic alarm system performs the following functions:

- remote control for central door locking/unlocking
- perimeter surveillance, detecting the opening of doors and lids
- motion surveillance, detecting intrusion into the passenger compartment
- vehicle movement surveillance.

Activation

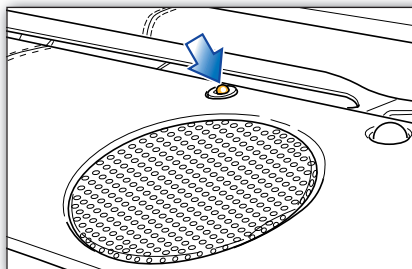
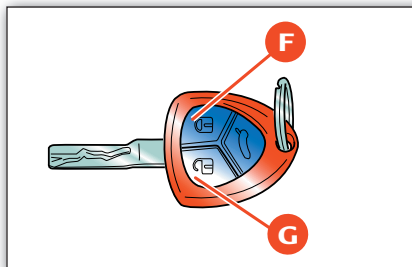
To turn on the alarm system, press button **F** on the key:

- 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 alarm system is activated after approximately 25 seconds and the alarm is triggered if:

- a door is opened
- the luggage compartment lid is opened
- the engine compartment lid is opened

- someone attempts to enter the vehicle from a window
- the power supply is disconnected
- the siren is disconnected
- the vehicle is moved.



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: this 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, rear/front lid and close the open one without deactivating the alarm system: the direction indicators flashing once indicate that now the door or the front/rear lid is closed properly and is protected by the perimeter surveillance.

If the direction indicators 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.

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 goes off
- the dome lights and the lights under the doors turn on
- 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.

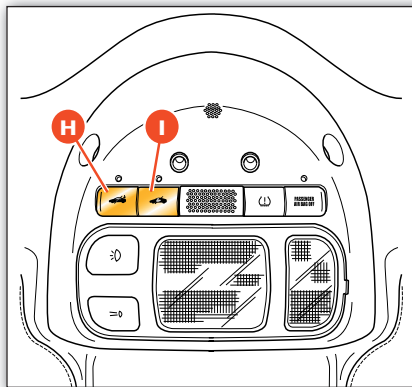
The alarm system is off and it is therefore possible to get into the vehicle and to start the engine.

If the remote control battery is dead, to gain access to the vehicle, insert the key into one of the two door locks, then 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.

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 then will turn off.

*Deactivating the anti-lift alarm*

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

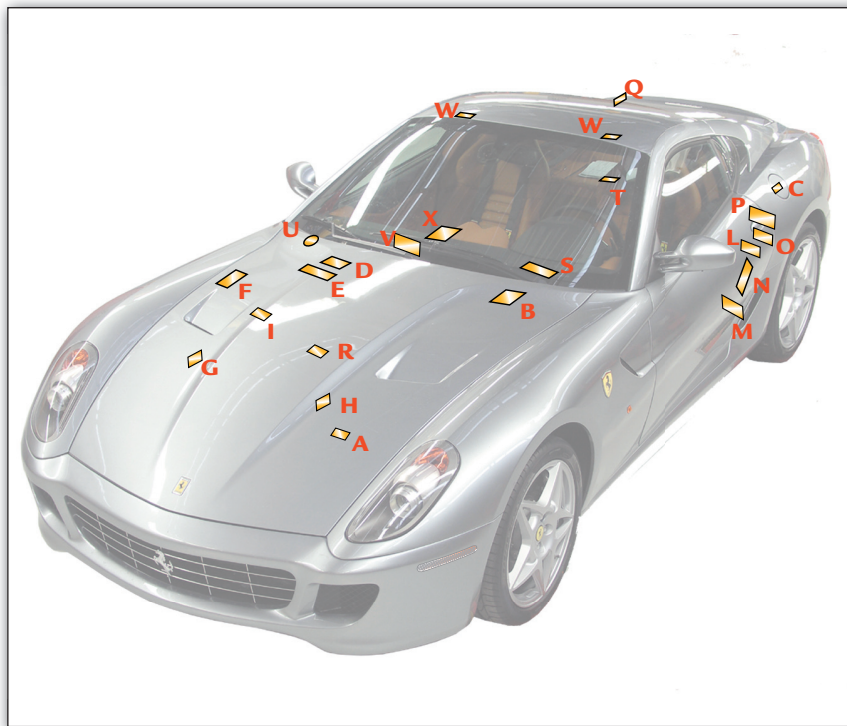
Alarm memory

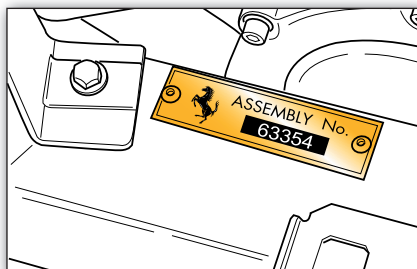
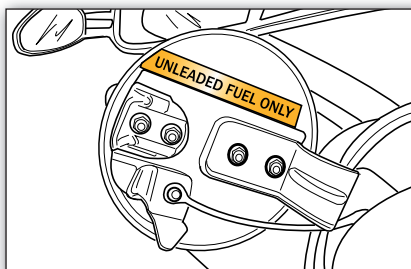
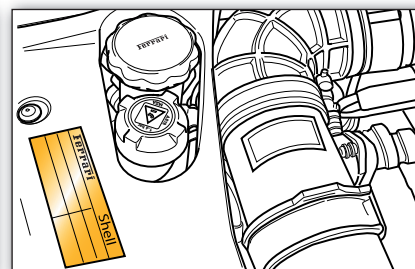
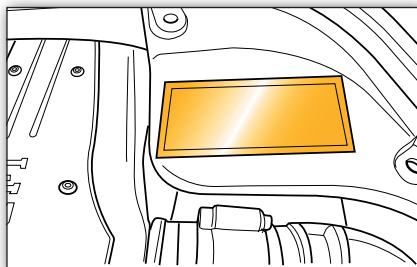
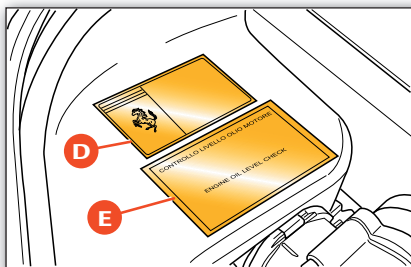
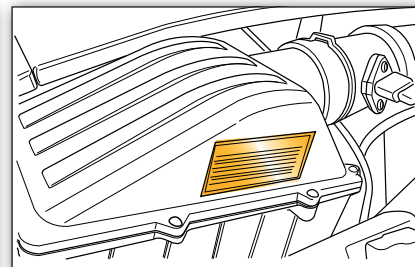
If the **CODE** warning light appears on the display when the vehicle is started, this means that an intrusion has been attempted.

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

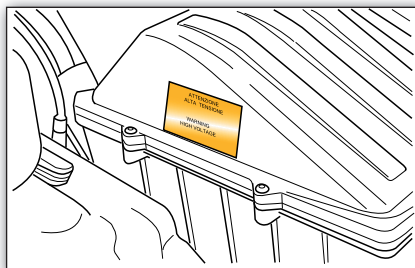
Identification plates and labels

- A** Assembly number plate
- B** Emission control data label
- C** Fuel label
- D** Paintwork label
- E** Oil level check label
- F** Engine oil type label
- G** Airbag label
- H** High voltage label
- I** Anti-freeze label
- L** Tire pressure label
- M** Tire pressure and temperature monitoring system label
- N** V.I.N. plate
- O** Safety standard label
- P** Mercury content warning label
- Q** Battery master switch instruction label
- R** Engine type and number
- S** Chassis type and number
- T** Gearbox type and number
- U** Airbag maintenance label
- V** Child seat warning label
- W** Airbag label
- X** Weight sensor label

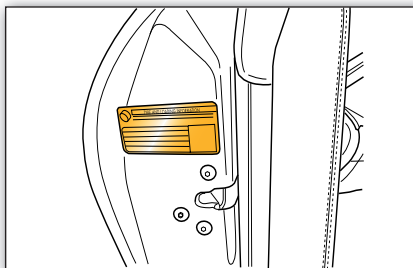


A Assembly number plate**C** Fuel label**F** Engine oil type label**B** Emission control data label**D** Paintwork label
E Oil level check label**G** Airbag label

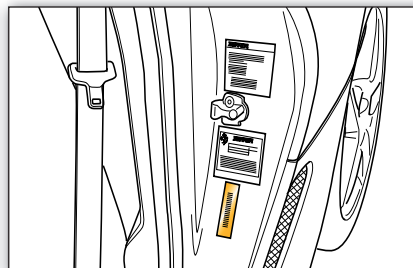
H High voltage label



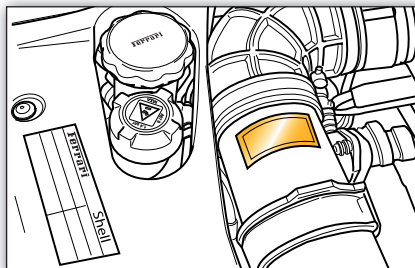
L Tire pressure label



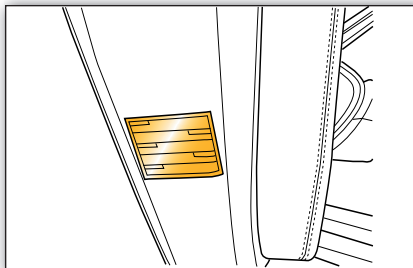
N V.I.N. plate



I Anti-freeze label

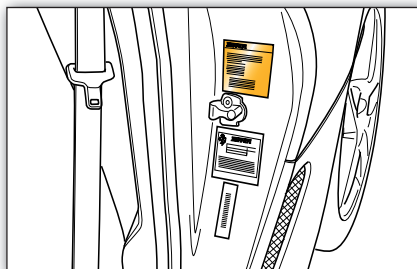
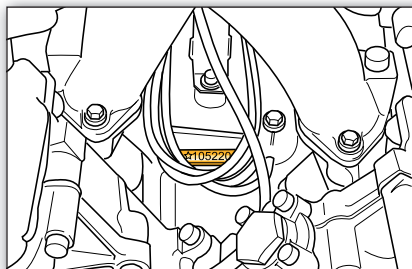
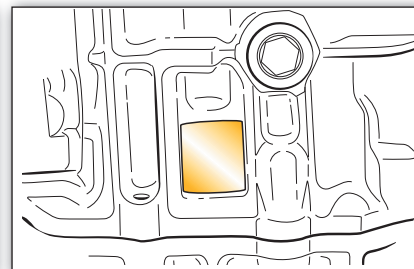
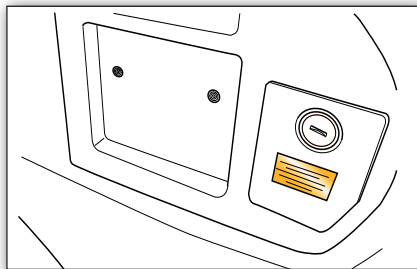
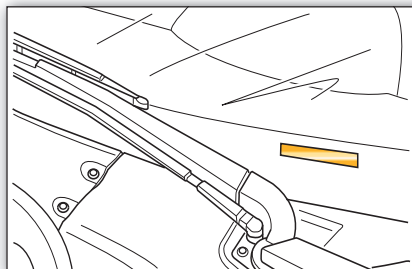
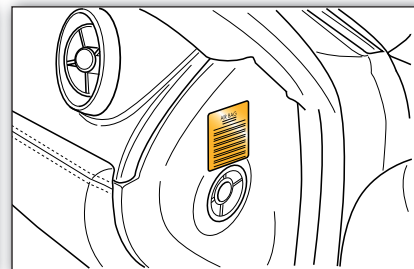


M Tire pressure and temperature monitoring system label

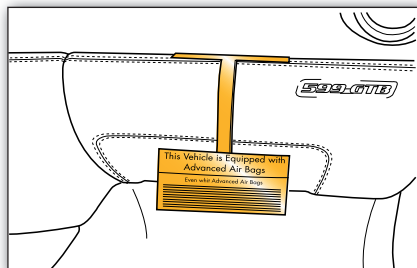


O Safety standard label

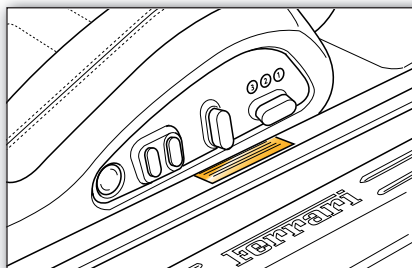


P Mercury content warning label**R** Engine type and number**T** Gearbox type and number**Q** Battery master switch instruction label**S** Chassis type and number**U** Airbag maintenance label

V Child seat warning label



X Weight sensor label



W Airbag label



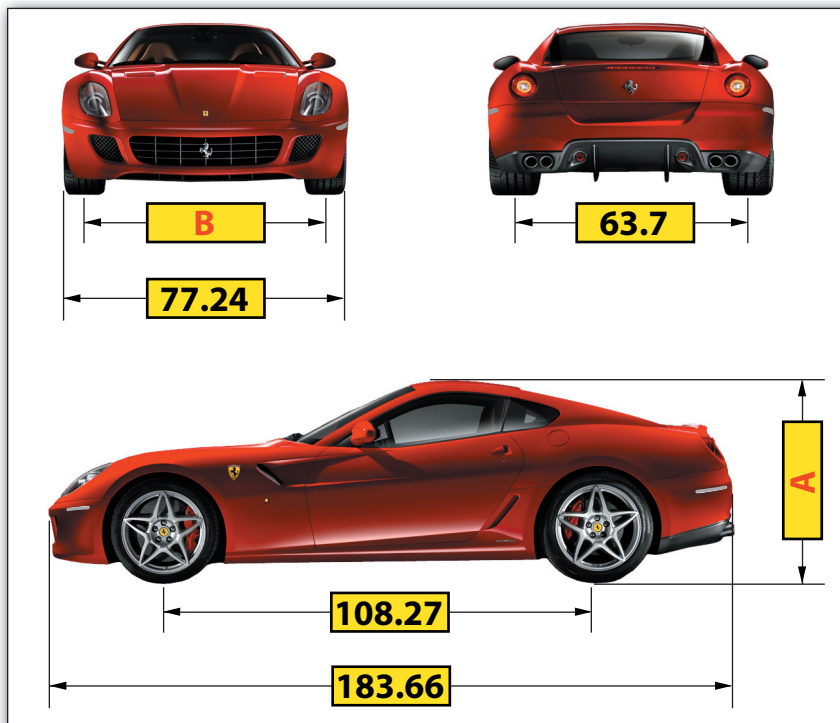
Dimensions and weights

Wheelbase	108.27 in. (2750 mm)
Max. length	183.66 in. (4665 mm)
Max. width	77.24 in. (1962 mm)
Max. height A	52.12 in. (1324 mm)
Front track B	66.53 in. (1690 mm)
Rear track	63.7 in. (1618 mm)
Curb weight	3,777 lbs. (1715 kg *)
Curb weight (F1)	3,810 lbs. (1730 kg *)

* with the vehicle fitted with the most popular options available.

HCTE package

Max. height A	51.73 in. (1314 mm)
Front track B	66.81 in. (1697 mm)



Main engine specifications

Engine Family	AFEXV05.7LEV
Type	F140C
Number of cylinders	12
Cylinder bore	3.6 in.
Piston stroke	2.96 in.
Total displacement	5999 cm ³
Compression ratio	11.2:1
Maximum RPM	8250 RPM
RPM limiter	8400 RPM
Max. power	456 kW (611 HP)
Corresponding RPM	7600 RPM
Max. torque	608 Nm
Corresponding RPM	5600 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	4.18
4	32 / 27 = 1.19	(11 / 46)
5	29 / 31 = 0.94	
6	25 / 33 = 0.76	
R	41 / 14 = 2.93	

Performance

Gearbox type	0 - 100 km/h 0 - 62 mph	0 - 200 km/h 0 - 124 mph	Max. speed
F1 Gearbox Version	3.7 sec	11 sec	> 205 mph (> 330 km/h)
Mechanical Gearbox Version	3.7 sec	11 sec	> 205 mph (> 330 km/h)

Fuel Consumption (miles per US Gallon)

F1 Gearbox Version	
City	11
Highway	15
Average fuel consumption	12
Mechanical Gearbox Version	
City	11
Highway	15
Average fuel consumption	12

These estimates are based on tests performed on vehicles equipped with frequently purchased 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>.

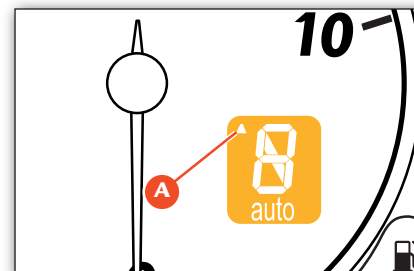
Reminder: Your actual fuel consumption may vary depending on your driving style and habits, vehicle maintenance, optional equipment installed, road and weather conditions.

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

The graphic symbol **A** appears just before reaching the speed recommended for operating the UP lever (F1 gearbox version) or for upshifting using the gearshift lever (mechanical gearbox). After shifting gears or after exceeding the indicated speed, the indicator turns off even if no gearshift is performed.



Electrical system

Supply voltage	12 v
Alternator	Nippondenso 150 A
Battery	Fiamm 12V, 74 Ah, 440 A
Starter motor	Nippondenso

Wheels and Tires

Wheel		
Front	Rear	Spare
8" J x 19"	11" J x 20"	4.5" J x 20"
8" J x 20" optional	11" J x 20"	4.5" J x 20"

* Tires approved by FERRARI			Inflation pressure (when cold)	
	Front	Rear	Spare tire	
Pirelli P Zero	245/40 ZR19	305/35 ZR20		
			145/60 ZR20	

* Always check your tires regularly for wear and damage.

Wheels and Tires (*HGTE package*)

Wheel	
Front*	Rear
8.5" J x 20"	11" J x 20"
*front wheel with reverse rim	



Wheel with REVERSE RIM (*HGTE package*).

The tire must be fitted and removed from the inner part of the rim only to avoid damaging the rim and pressure sensor!

This operation must be performed by skilled staff.

Contact your AUTHORIZED FERRARI DEALER.

Optional tires	<i>Inflation pressure (when cold)</i>			
	Front	Rear	Front	Rear
Pirelli P Zero	245/35 ZR20		32 psi (2.2 bar)	
Bridgestone RE 050 (Run Flat)	245/35 ZR20	305/35 ZR20	32 psi (2.2 bar)	32 psi (2.2 bar)
Goodyear Eagle	245/40 ZR19	305/35 ZR20	36 psi (2.5 bar)	36 psi (2.5 bar)

Snow tires	<i>Inflation pressure (when cold)</i>			
	Front	Rear	Front	Rear
Winter Pirelli	245/40 ZR19	305/35 ZR20	35 psi (2.4 bar)	32 psi (2.2 bar)

Tyres for <i>HCTE package</i>	<i>Inflation pressure (cold)</i>			
	Front	Rear	Front	Rear
Pirelli P Zero	245/35 ZR20	305/35 ZR20	32 psi (2.2 bar)	29 psi (2.0 bar)

In order to achieve the best vehicle performance and help ensure safety conditions, replace all of the snow tires if they are worn.
Please contact your AUTHORIZED FERRARI DEALER when you have to fit snow tires.

Wheel Replacement

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

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	Pirelli P Zero
Tread wear	220 (front) 160 (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.



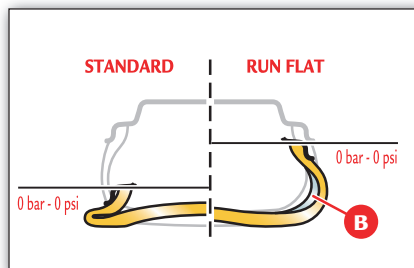
The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Run Flat tires (optional)

The vehicle can come equipped with “Run flat” tires. This type of tire has a reinforced side **B** which allows the vehicle to continue traveling at moderate speed (50 mph - 80 km/h), even after a puncture, for a specific distance.

The instrument panel receives the “tire puncture” information from the tire pressure monitoring ECU, which monitors the residual tire life and displays a warning in the dedicated area of the TFT display after 30 mi (50 km).

After 60 mi (100 km), a message warning the driver to stop the vehicle will be displayed (see “Tire pressure and temperature monitoring system” on page 55).



If you are going to use standard tires on a vehicle that was originally equipped with “Run Flat” tires, you must contact your **AUTHORIZED FERRARI DEALER** to have the dashboard reprogrammed and to prevent viewing warning messages on the TFT display.



Run Flat type tires cannot be fitted on the 599 GTB Fiorano with the **HGTE package!**



Observing the recommended wheel alignment values is essential in order to obtain the best performance and the longest life of these tires.

More information on these tires and on the relative pressure monitoring system can be found in the “Carrozzeria Scaglietti” Owner’s Manual.

Recommended lubricants and fluids

Parts to be refilled		Quantity	Fill with	Ref. Page
Engine	Total system capacity	12.68 qts. (12 l)	 HORSE POWER SAE 10W-60	161
	Oil level between Min. and Max.	1.58 qts. (1.5 l)		
	Oil consumption (depending on driving conditions)	1.06-2.11 qts./600 miles (1.0 ÷ 2.0 l/1,000 km)		
Gearbox and differential		5.28 qts. (5 l)	 Shell TRANSAXLE SAE 75W-90	161
F1 gearbox system		1.06 qts. (1 l)	 Shell DONAX TX	161
Braking and clutch system		1.58 qts. (1.5 l)	 Shell DONAX UB BRAKE FLUID	163
F1 braking system			DOT4 <i>Ultra</i>	
Cooling circuit		6.34 US Gallon (24 l)	 Shell GLYCOSHELL at 50%	161
Hydraulic steering system		1.06 qts. (1 l)	 Shell DONAX TX	163
Steering box		0.22 lbs. (100 g)		
Fuel tank		27.74 US Gallon (105l)	Premium Gasoline (91-94 A.K.I.)	71
Reserve		5.28 US Gallon (20 l)	Unleaded fuel	
Air conditioning and heating system				-
Compressor		10.07 cu.in.(165 cc)	DELPHI RL 488 “R 134 A”	
Refrigerant		1.65 ± 0.11 lbs. (750 ± 50 g)		
Windshield washer fluid tank		6.86 qts. (6.5 l)	Windshield washer fluid	164

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Seat belts

Pretensioners

Child safety

Airbag

Side Airbag

Advanced Airbag System

ABS

CST

F1-Trac

Tire pressure and temperature
monitoring system

Seat belts

If used correctly, the seat belts, in combination with the pretensioners, have been designed to help protect the wearer from a variety of impacts while firmly securing the occupants within the structure of the vehicle.



FERRARI urges you to use the seat belts correctly fastened and adjusted at all times!



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

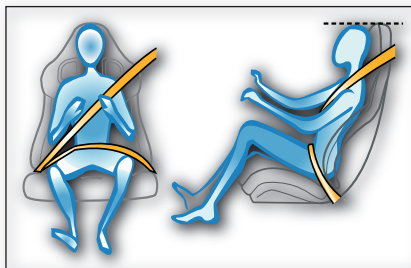


All passengers must wear their seat belts!

The seat belts are lap and shoulder seat belts with automatic retractor and an emergency inertia locking system on the retractor unit, which is fitted with a pretensioner.

To help ensure optimal protection, keep the seat backrest in the upright position, make sure that your back is properly resting on it and adjust the seat belt correctly, fitting it closely across your chest and pelvis.

The lap portion of the seat belt must be fitted low across your pelvis, resting on the pelvic bones. Take care that the lap portion of the lap belt does not rest on the abdomen, as this can result in an increased risk of injuries. Adjust the seat height to help keep the lap portion of the belt low on the pelvis.



Do not pass the seat belts over sharp edges. They could tear.



Do not attach or pin anything onto the seat belts. This could reduce their initial strength and cause them to tear in the event of a crash.

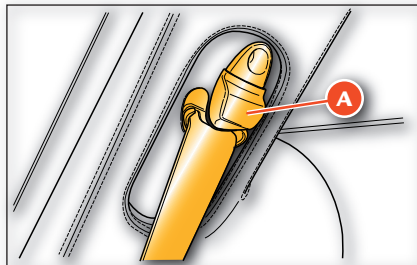


Do not bring cutting edges in contact with a seat belt. They may get damaged and consequently break in the event of a collision.

If a seat belt has been brought in contact with a cutting edge, or has been used to pin something on it, have it immediately replaced at your AUTHORIZED FERRARI DEALER.

Adjusting the seat belt height

- Press button **A** to release the adjustment device and move it to the desired position.

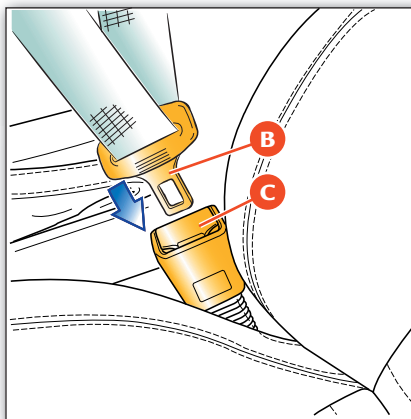


- Always check that it is locked. The seat belt is properly adjusted when it passes about mid-way between the end of the shoulder and the neck. The lower part must fit tightly across the pelvis and not the abdomen.

Fastening the seat belts

Adjust the seat and seat backrest properly.

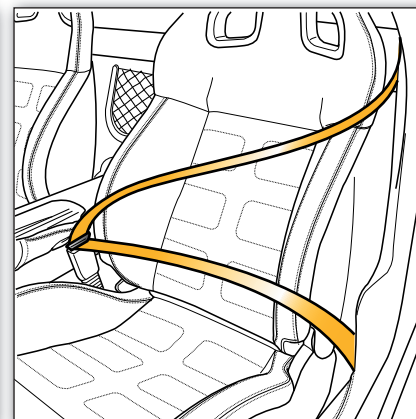
- Grip the buckle **B**, slowly pull the belt and insert the tang into its receptacle **C**. Should the belt lock while pulling it, let it rewind slightly and then pull it again without sharp movements.



- Make sure that it has clicked into place.
- Position the seat belt correctly: the lap portion of the seat belt must rest low on the pelvis, and lean onto the pelvic bones.

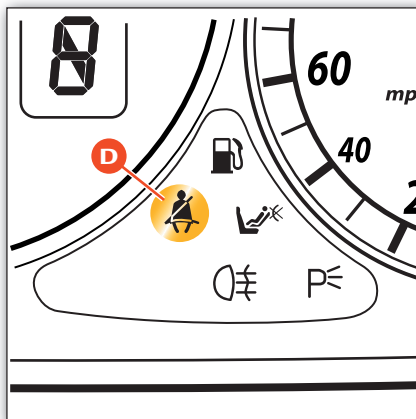
Do not use any objects (e.g., spring clips, locks, etc.) that hold the seat belt away from your body.

- Pay attention that the lap portion of the seat belt does not move up into the abdomen.



- Avoid “slouching” positions, as this can cause the lap portion of the seat belt to move up to the abdominal region.
- The upper portion of the seat belt must be adjusted so that it passes over the shoulder, mid-way between the end of the shoulder and the neck.

If the driver's seat belt is not fastened, when you turn the ignition key to position **II**, the warning light **D** illuminates.



If the passenger's seat belt is not fastened and the system detects the presence of an adult in the passenger's seat (according to the Occupant Classification System), a warning will appear on the TFT display.



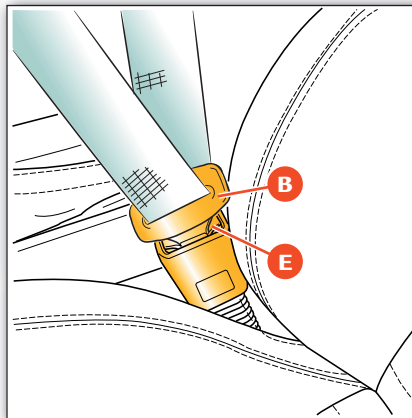
Do not allow children to be held on a passenger's lap using only one seat belt for both of them.

In the event of a crash, the weight of the adult would crush the child against the seat belt.

This can result in serious injuries or death for the child.

Unfastening the seat belts

- Push the release button **E**.
- Guide the seat belt buckle **B** back to its rest position.



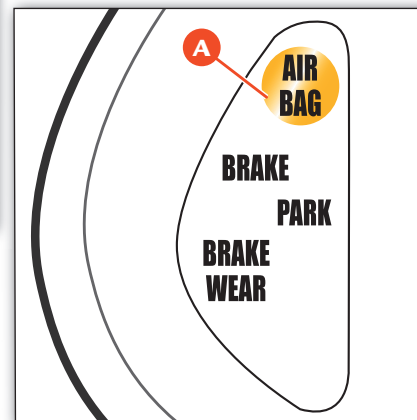
Emergency tensioning device, seat belt load limiter

The seat belts in this vehicle are equipped with emergency tensioning devices (also called "pretensioners") and load limiters.

Pretensioners

The pretensioners are designed to activate in the event of certain head-on collisions of sufficient force, or in a side collision of sufficient force. The seat belt will rewind a small amount just before the restraining action begins, thereby helping to ensure a proper hold around the occupant's body.

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



 After activation, the pretensioner no longer functions and cannot 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 a fire.

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

It is not permitted to remove or make modifications of any kind to the seat belts, belt retractors and pretensioners.

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

Activation of the pretensioners only depends on the status of the seat belts and is not affected by the occupants' presence.

If the seat belt is not fastened, the pretensioner will not activate, even if the seat is occupied.

The seat belt is equipped with a load-limiting device, which is designed to reduce the restraining force exerted by the seat belts on the occupant's body during a collision. This device controls the force level with which the seat belt is released during a collision.

Child safety

 Never drive with a child in a rearward-facing child seat in the front seat if the "PASSENGER AIRBAG OFF" warning light is not illuminated. Airbag deployment can cause serious injuries or death to a child in a rearward-facing child seat.

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

 Child seats may only be installed with the seat fully lowered and pushed backward.

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

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

All person whose physical characteristics (e.g., height, weight) meet the limit values provided by established legislation in each country must be protected by approved restraint or safety systems (i.e., certified child seats, cradles, and cushions). In any case, you are advised to always use certified child restraint systems bearing the proper test marking.

 Incorrect fastening of a child restraint system increases the risk of injury to the child in the event of a collision.

- The seat belts in the vehicle have been designed and tested to protect persons weighing at least 79 lbs (36 Kg) and taller than 59 in. (1.50 m).
- To properly protect any passengers outside these limits, specific restraining systems with dedicated belts or accessories capable of adapting the child's position to the vehicle's seat belts must be fitted.

For installation and use of a child restraint system, always follow the instructions that the manufacturer of the devices is required to supply.

Always follow the instructions supplied with the child restraint system precisely. Keep the instructions in the vehicle together with the documents and this manual. Never use second-hand child seats which are not provided with instructions for use.

In case of an accident, replace the child seat. The passenger-side seat belt in this vehicle is equipped with special retractors to help properly fasten a child restraint. To install a child restraint, pull the seat belt out completely. The retractor will now only allow the seat belt rewinding and will not allow the seat belt to be pulled out.

Follow the instructions on the child restraining system for proper installation in the vehicle.

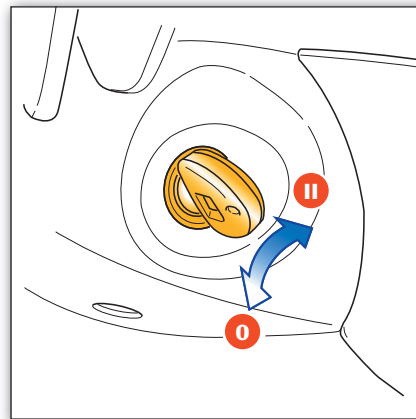
Check that the seat belt locking mechanism has been activated by trying to pull out a small amount of seat belt with moderate force. If the system has been activated, this should not be possible.

To deactivate this feature, release the seat belt buckle and allow the seat belt to retract completely.

 Always deactivate this feature prior to using the seat belt for normal use. Having the retractor locked can be dangerous when the seat belt is used for directly restraining a passenger.

If you must, in an emergency situation, carry a child in a rearward-facing child seat in the front passenger seat:

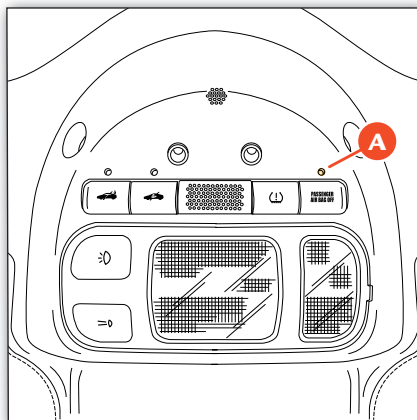
- adjust the seat to the most rearward position (avoiding contact with the interior)
- adjust the headrest to the lowest possible position
- install the child seat when the key is in the 0 position, following the instructions provided with the child seat



 Installing a child seat with the 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 key in position II
- always check that no objects are stuck underneath the seat
- always check that no objects are loose on the floor, either in front, or behind the seat
- check that no objects contact the seat

- make sure that the “PASSENGER AIRBAG OFF” warning light **A** on the roof panel is illuminated and does not flash



- drive carefully and slowly avoiding any hard braking and acceleration
- do not distract yourself from driving by checking on the child. If you need to check on the child's condition, stop the vehicle in a safe place
- when it is not dangerous (e.g., stops at “red” traffic lights) periodically check on the “PASSENGER AIRBAG OFF” warning light status. If the “PASSENGER AIRBAG OFF” warning light goes off, a

warning will also be temporarily viewed in the multifunction display in the instrument panel, but you may be busy with driving and not notice it



- if the “PASSENGER AIRBAG OFF” warning light goes off, carefully stop the vehicle in a safe place. Check that no objects are stuck underneath or behind the passenger seat.

If the “PASSENGER AIRBAG OFF” warning light is still not illuminated, move the key to the 0 position and wait a few seconds. If, at restart, the lamp is still not illuminated, call for assistance



Never drive with a child in a rearward-facing child seat in the front seat if the "PASSENGER AIRBAG OFF" warning light is not illuminated. Airbag deployment can cause serious injuries or death to a child in a rearward-facing child seat.



Never carry a child in a adult's lap. In the event of a crash, the weight of the adult could crush the child against the seat belt (or the dashboard). This could result in serious injuries or death for the child.



This is a high-performance vehicle. You are strongly urged not to carry children in this vehicle, since they can also be injured by hard accelerations.



Always drive slowly and carefully when carrying a child. Hard accelerations due to sport-style driving can be dangerous for children, even if no crash occurs.



Children must always be seated in a child restraint system specifically designed for their size, and must be properly restrained.



Unrestrained occupants, including children, can be propelled against the dashboard or the windshield by hard braking and by crash forces. This can result in serious injuries or death.



Do not tamper with seat belts or child restraint systems.

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



The ignition key must always be turned to position 0 when installing a child seat on the front passenger seat.

Transport of persons with disability

If it is necessary to modify the advanced airbag system of your vehicle to accommodate a person with disabilities, contact your AUTHORIZED FERRARI DEALER.



The advanced airbag system of your vehicle is not designed to protect adults with disability that require deactivation of the passenger's or driver's airbag.



If you or another occupant is an adult with a medical condition that requires airbag deactivation, please contact your AUTHORIZED FERRARI DEALER.



As long as the airbag is activated, persons with disability are advised not to travel in the vehicle in order to avoid the risk of serious injuries or death, even in minor crashes.

Airbag

 The airbag is not a substitute for the seat belts. Correct use of the seat belts, in combination with the airbag, will offer protection for the driver and passenger in the front seats in the event of a head-on collision.

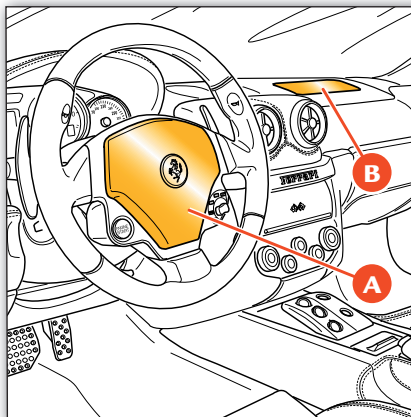
 Front airbags cannot offer protection in side crashes, certain front-angular crashes, roll over events or in secondary impacts (if a second crash happens after the airbags have been deployed in a previous crash). The seat belts are designed to help reduce the risk of injuries in roll over events and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

A properly fastened seat belt is needed to help protect occupants in roll over events and secondary front impacts.

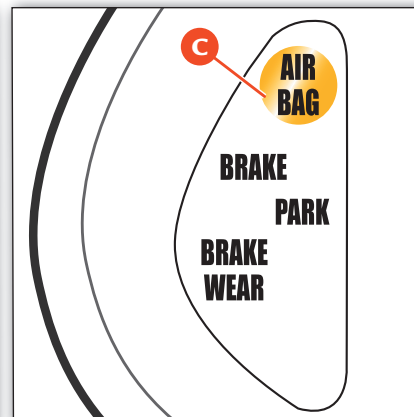
 Front airbags are designed to not be deployed in low severity frontal crashes. The seat belts can help reduce injuries in low severity crashes. A properly fastened seat belt is needed to help protect the occupants in low severity frontal crashes.

Airbag system components

The airbag system is composed of two cushions that are designed to inflate almost instantaneously. One **A**, is on the driver side, in the center of the steering wheel, and the other **B** on the passenger side, inside the dashboard.



 When the ignition key is turned to position II, the warning light C illuminates. If no malfunctioning 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 airbags are controlled by an ECU that is designed to activate them in the event of certain head-on collisions of sufficient force.

In the case of a collision with an impact force that causes deceleration exceeding 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 hundredths of a second. Once deployed, they will serve as protection between the driver and/or passenger and the structures that could cause injury.

The airbags deflate immediately afterwards.

The passenger airbag deployment is further influenced by the occupant's weight, as determined by the Occupant Classification System (see also page 50 for more details about the Occupant Classification System).

If the front passenger is classified as being a child by the Occupant Classification System, the passenger airbag will never deploy, no matter how high the crash severity.

It is possible that the driver's airbag is deployed in a crash, and the passenger's airbag is not deployed. This could happen if the front passenger is classified as a child by the Occupant Classification System (see also page 50 for more details about the Occupant Classification System).



The driver and passenger are both advised not to travel handling objects (e.g., beverage cans or bottles, pipes, etc.) that could cause injury in the case of airbag deployment.

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 presence of smoke is not indicative of a fire.



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

Driving with your hands inside the steering wheel rim or on the airbag cover increases the risk of injury for your wrists and arms.



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 help ensure 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.

Thus, even with the vehicle stationary, do not put children in the front seat. In addition, remember that if the ignition key is in position 0, none of the safety devices (airbags or pretensioners) will be activated in the event of a collision. Failure of the airbags to inflate in these circumstances is not indicative of a system malfunction.



Therefore, even with the vehicle stationary, do not allow children to sit on the front seat.

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

 Never place an object over or near the airbag covers.

In the event that the airbags are deployed, these objects would be projected into 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.

 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 your AUTHORIZED FERRARI DEALER. Activation of a damaged module could cause serious or fatal injuries.

Never remove the steering wheel. 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.

 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.

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.

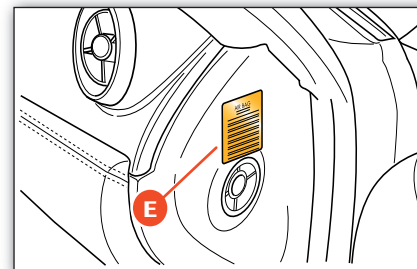


To scrap the vehicle, please contact your AUTHORIZED FERRARI DEALER to have the airbag system deactivated and disposed of properly.

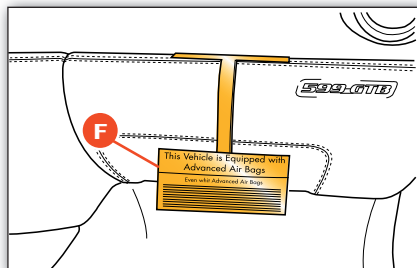
If the vehicle has been stolen or there has been an attempted theft, have the airbag system checked by an AUTHORIZED FERRARI DEALER.

 The airbag modules must be replaced at the intervals indicated in the “Warranty and Service Book” EVEN if the vehicle was NOT involved in a collision.

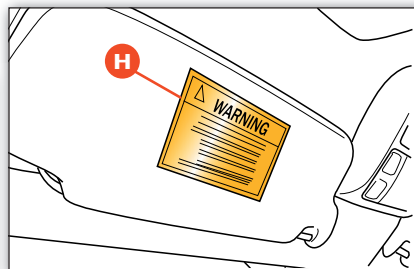
The label **E**, on the right-hand side of the dashboard, bears the airbag system expiration date. When this expiration date is approaching, contact your AUTHORIZED FERRARI DEALER in order to have the system replaced.



The label **F** on the dashboard can be removed.



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



Side Airbag



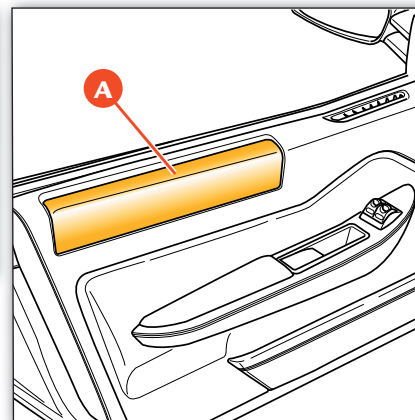
The airbags are not a substitute for the seat belts. Correct use of the seat belts, with the supplementary action of the side bags, will provide protection in the event of a lateral collision.

Side bag system components



The side bag fitted on the vehicle was not designed to reduce the risk of being hurled out in the event of vehicle roll-overs.

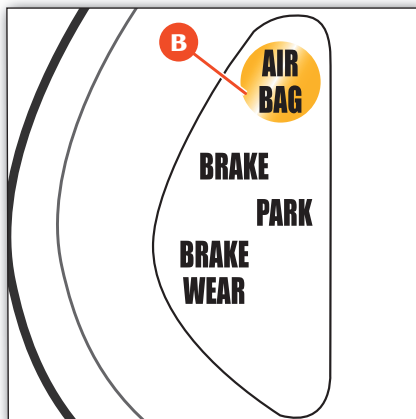
Your vehicle is equipped with 2 side bags, one in the driver-side door **A**, and the other one in the passenger-side door.



Each side bag is composed of a cushion, which has been designed to deploy almost instantaneously in order to protect the occupant's head in the event of a side impact.



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 bags are controlled by a dedicated ECU that has been designed to activate them when a lateral collision of a sufficient force occurs.

In the event of a side collision with an impact force exceeding the limit set by the ECU, this will transmit a signal for activating the pretensioner and the side bag on the impact side. The airbag will start inflating, opening its cover along the breakage line, until it is fully deployed (in a few hundredths of a second).

After deployment, the airbag will be positioned as a protection between the driver's or passenger's head and the external structures which could go through the passenger compartment and cause injury. The airbags deflate immediately afterwards.

The side bag activation is not affected by the front passenger's height or weight. The side bag has been designed to activate whenever the airbag ECU detects a collision of a sufficient impact force for deployment.



Never travel with your head leaning out of the window, as your head and neck would be in the airbag activation area. In the event of a side collision, this position would increase the risk of being hurled out of the vehicle and would compromise the protective action of the side bags.



Never place an object over or near the airbag covers.

In the event that the airbags are deployed, these objects would be projected into 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.



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 your AUTHORIZED FERRARI DEALER.

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

Please consider that the airbag ECU is not capable of automatically detecting damages involving 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.

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

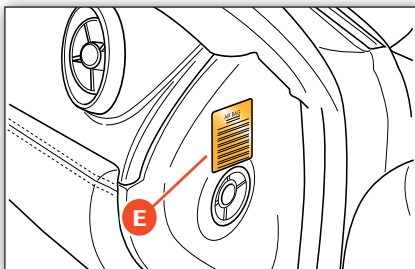


Following activation, the airbag components can no longer perform their protective action; therefore, they cannot be repaired and must be replaced. After activation of a side bag, have it replaced by your **AUTHORIZED FERRARI DEALER**.



The airbag modules must be replaced at the intervals indicated in the “Warranty and Service Book” **EVEN** if the vehicle was **NOT** 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.



Advanced Airbag System

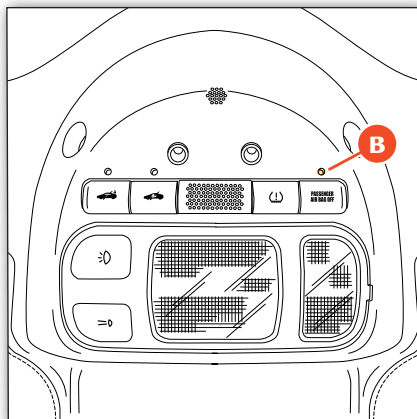
The system includes:

- 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 34)
- a dual stage driver's airbag at the driver position, located within the steering wheel (see also page 41)
- a dual stage passenger's airbag at the front passenger position, located on top of the dashboard (see also page 41)
- 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 50)

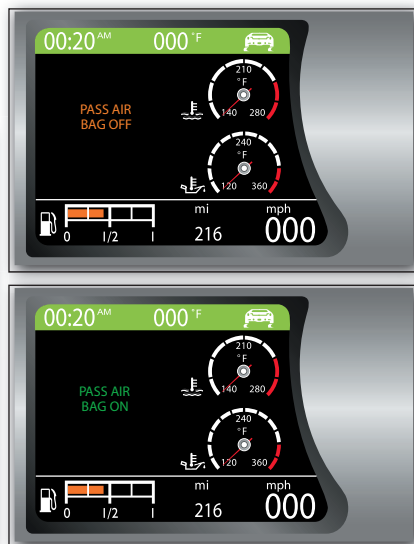


- a readiness indicator (red warning light **A** in the instrument panel) (see also page 36) also called “airbag failure warning light”

- a passenger airbag status indicator (amber warning light **B** “PASSENGER AIRBAG OFF” on the roof panel) (see also page 39)



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



Your system is designed to (see also page 37):

- 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 50 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, seriously injuring or killing the child.

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 50 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 50 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 50 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 50 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 do not substitute 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 34 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 secondary impacts (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.



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 (see also page 42):

- 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 on page 50) 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

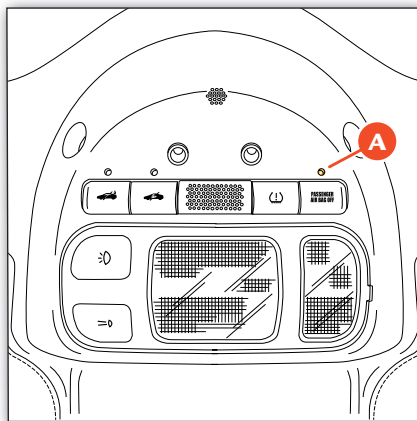
NOTE 1

The functionality of the system has been verified by FERRARI for all the following child seats:

Cosco Dream Ride 02-719
 Britax Handle with Care 191
 Century Assura 4553
 Century Smart Fit 4543
 Cosco Arriva 02727
 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

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.

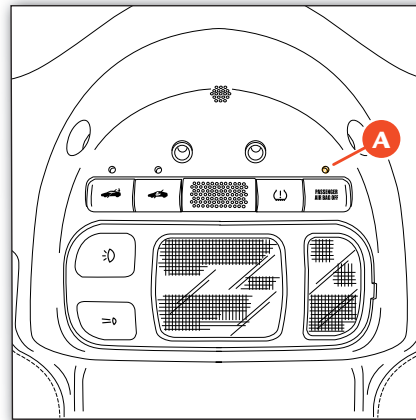
Please note that when the “airbag” warning light is illuminated, there may be an error also in the central control unit, and the system might not be able to perform as designed.

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 50).

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 102 - 107).

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 death.



The front passenger’s seat and its control unit are part of the advanced airbag system. Never have your seat tampered with, as this can result in a system malfunction, which could cause serious injuries or death.



Repairs on the front passenger seat must only be performed by trained technicians at an AUTHORIZED FERRARI DEALER.

When a passenger is sitting in the front seat:

- always check that no objects are tucked underneath the seat or behind it
- always check that no objects are loose on the floor, either in front, or behind the seat
- check that no objects contact the seat
- make sure the “PASSENGER AIRBAG OFF” warning light status is appropriate for the type of occupant (ON for a child in a rearward-facing child seat, OFF for an adult, either ON or OFF for a child properly secured in a forward-facing child restraint system).



Not following the above instructions can result in serious injuries or death in the event of a crash.

ABS

This is a safety device which is designed to activate in order to help prevent wheel locking if the driver depresses the brake pedal too sharply, especially under poor grip conditions.

The system is composed of:

- an electro-hydraulic unit
- an electronic brake-force distributor (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 is activated, during emergency braking or under poor grip conditions, the driver will perceive a "pulsation" of the brake pedal. Hold the brake pedal pressed to continue the braking action.

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

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

If braking with ABS activation occurs, these adjustment phases will be repeated in cycles until the vehicle comes to a stop or the pressure on the pedal decreases.

In addition, the system offers the following advantages:

- driving stability (no skidding), even in the event of sharp braking approaching wheel locking.
- maneuverability (no side-skidding on sharp turns).

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.



The ABS system features remain unaltered as long as the speed limit for the tire side grip is not exceeded. When this limit is exceeded, vehicle skidding cannot be avoided.

- Optimal braking distance: depending on the type of road surface, the braking distance may be reduced by as much as 40%.



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

The ABS system cannot compensate for driving at speeds that are excessively high for certain traffic or road surface conditions, worn tires, worn components in the braking system 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 could instinctively cause the wheels to lock.

CST

CST is Ferrari's acronym for Stability and Traction Control. The CST is composed of two main systems:

- VDC** Vehicle Dynamics Control, performed through the braking system and engine torque
- F1-Trac** Traction control, performed through engine torque modulation, depending on maximum grip on the road and of secondary systems that are always active, such as the **ABS**, **EBD**, etc.

To help provide optimal control in different driving and grip conditions, four different setting levels have been designed:

- **Level 1:** helps ensure stability and maximizes traction on every type of road surface, both in low ("Manettino" set to **Low Grip** position) and very low ("Manettino" set to **ICE**) grip conditions, by means of engine and brake control (in this condition, the standard **ASR** system activates instead of the **F1-Trac** function).
- **Level 2:** helps ensure stability and maximizes traction only in dry- to high-grip conditions ("Manettino" set to **SPORT**) optimizing engine and brake control.
- **Level 3:** enhances the racing features of the vehicle, helps provide but does not ensure a good level of stability ("Manettino" set to **RACE**) by reducing engine control to a minimum and making the best use of brake control.



RACE mode must be used only on race tracks.

- **Level 4:** CST off (position ~~CST~~). Stability is not ensured, but all the other features always present in the other settings, such as the **ABS** and **EBD**, remain active. When the brake pedal is depressed, the **VDC** system reactivates. When the brake pedal is relaxed, the **VDC** system deactivates.

F1-Trac

F1-Trac is directly derived from Ferrari's expertise in F1 vehicles. This system is designed to optimize traction by controlling engine power delivery.

F1-Trac is faster and more accurate than the traditional control systems, and is capable of delaying and minimizing engine torque adjustments, in order to help 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 operation logic. Comparing this information with the vehicle dynamics model stored in the control system, **F1-Trac** optimizes the vehicle behavior by controlling engine torque delivery.

F1-Trac does not work when the "Manettino" is set to **CST** off.

Tire pressure and temperature monitoring system

The vehicle is equipped with a system that monitors the tire pressure and temperature by means of special sensors secured inside the wheel rims, in position with the inflation valve. These sensors transmit a signal that is detected by the antennas on the car body, behind the gravel guards, that are connected to the ECU.

The system can momentarily experience radio-electric interference emitted by devices using similar frequencies.

The ECU processes this information and transmits, via the CAN line, a series of tire pressure and temperature data as well as any system errors to the instrument panel.

The signal transmitted by the ECU activates some symbols on the TFT display, with two priority levels: a **soft warning** (SW) if the pressure reduction in relation to the rated pressure is **greater than 2.9 psi (0.2 bar)**, and a **hard warning** (HW) if it is **greater than 5.8 psi (0.4 bar)** or if there is a dynamic reduction of over **2.9 psi (0.2 bar/min.)**

The calibration button is positioned on the inside roof panel (see page 94).

After tire replacement or inflation, the system must be calibrated using the relative button on the roof panel.



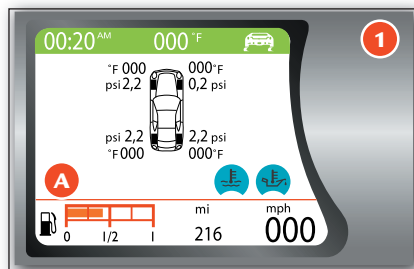
The system warns the driver that the tire pressure has decreased. However, this does NOT exempt the driver from periodically checking that the tires are inflated to the indicated pressure.

In addition, the system is UNABLE to warn the driver of sudden damage to the tires caused by external objects/agents (e.g., nails, stones, etc.).

Viewing messages on the “TFT” display

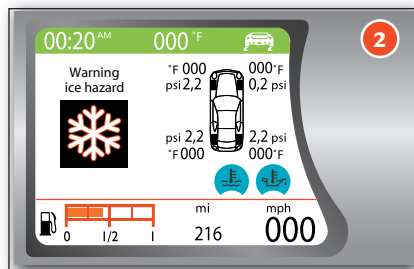
By pressing the **DISP** button or using the Menu function, the driver can access the **TIRES** information screen page, which shows the pressure and temperature values for each tire, as in the following example 1.

The TFT does not display any warning messages related to tire temperature.



The **TIRES** information page can also be set as main screen page (see page 83).

When indication by event occurs (e.g., malfunctions with **priority levels 1/2**, see page 86), the page is displayed as in the following example 2 for a time equal to the entire malfunction display cycle.



When the display cycle ends, the **TIRES** screen page becomes available again and the summary symbol for the malfunction is displayed in the specific area **A** (screen page 1), until the malfunction is corrected.

Low pressure

When the on-board instrument panel receives the signal from the tire pressure ECU that the pressure level of one tire is below the *alarm threshold*, screen page 3 will be displayed (regardless of the main screen page set).

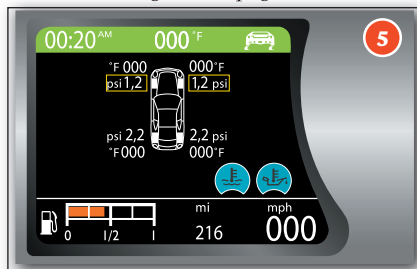


If the tire pressure value of more than one tire is below the *alarm threshold*, the following screen page 4 will be displayed.



After the display time has elapsed, the relative screenpage disappears.

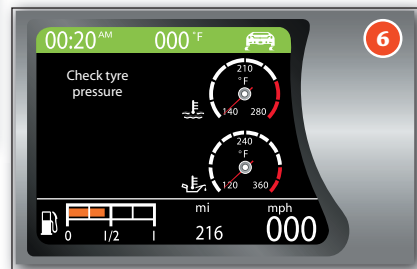
Subsequently, if the **TIRES** screen page is active, the TFT display will be viewed as in the following screen page 5.



Upon the next engine starting, if the failure persists, the relative warning light will illuminate on the display.

The system may not know which wheel is

originating the malfunction and therefore is not capable of indicating the wheel involved. In this case, screen page 6 will be displayed.



After the display time has elapsed, the relative screenpage disappears.

The **TIRES** screen page that shows the pressure of each tire cannot be recalled by the user.

Also in this case, if the pressure malfunction persists, upon the next engine starting the display will show the relative screen page. Subsequently the symbol will be viewed in the area dedicated to the warning lights, until the situation is corrected, as is the case for other **priority level 2** malfunctions.

Tire punctures

When the on-board instrument panel receives the signal from the tire pressure ECU that the pressure level of one or more tires is below the alarm threshold, screen page 7 is displayed. At the same time, the warning light on the instrument panel illuminates (see page 93).

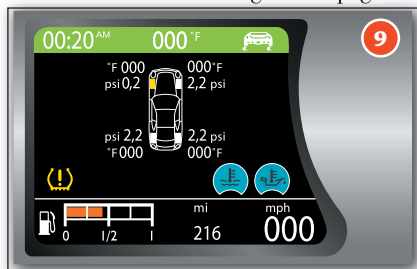


The same display logic is applied for the other **priority level 0** malfunctions, until the situation is corrected and the system is recalibrated (after turning the key to OFF and then back to ON).

For vehicles equipped with “Run Flat” tires, screen page 7 will be displayed four times alternately with screen page 8.



Subsequently, the symbol will be displayed in the area dedicated to the warning lights **A**, until the situation is corrected, as is the case for other **priority level 2** malfunctions. If the **TIRES** screen page is active, the TFT display will be viewed as in the following screen page 9.



If, instead, the **TIRES** screen page is not set as main page, the TFT display will be viewed as in the following screen page 10.



The instrument panel will calculate the residual fuel range and will display the same information after 31 mph (50 km).

When a tire is punctured, if you drive more than 62 mi (100 km) screen page 7 will be displayed or, if the vehicle speed exceeds 50 mph (80 km/h) screen page 7 or 8 will be displayed, according to the display logic of other **priority level 0** malfunctions.

After the key has been turned to OFF and then back to ON, the on-board panel must display the screen page “System not calibrated” (see page 59). The **TIRES** screen page cannot be recalled by the user.

If, during the display cycle of priority level 0 malfunctions (normal tire puncture), the driver presses the **MODE** button, the Set-

up Menu is accessed immediately, as for other priority level 0 malfunctions.

If, instead, during the above mentioned **priority level 2** cycle (RUN-FLAT tire puncture, when the speed limit has not been exceeded and the tire conditions still permit to travel), the driver presses the **MODE** button, screen page 9 will be displayed. The multi-function symbol will be displayed in the warning light area, as for other **priority level 2** malfunctions, until the situation is corrected and the system is recalibrated.

The system may not know which wheel is originating the malfunction and therefore is not capable of indicating the wheel involved. If the **TIRES** screen page is set as the main page, screen page 11 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 viewed in the warning light area **A** (**priority level 2**).

The **TIRES** screen page that shows the pressure of each tire cannot be recalled by the user.

For vehicles equipped with “Run Flat” tires, screen page **11** will be viewed four times, alternating with screen page **12**.



Subsequently, the symbol will be displayed in the area dedicated to the warning lights **A**, until the situation is corrected, as is the case for other **priority level 2** malfunctions.

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

The instrument panel will calculate the residual fuel range and will display the same information after 31 mph (50 km).

When a tire is punctured, if you drive more than 62 mi (100 km) screen page **11** will be displayed or, if the vehicle speed exceeds 50 mph (80 km/h) screen page **11** or **12** will be displayed, according to the display logic of other **priority level 0** malfunctions.

Following a key-off / key-on cycle, the on-board panel must display the screen page “System not calibrated” (see page 59). The **TIRES** screen page cannot be recalled by the user.

System not calibrated

If the system has not been calibrated or following replacement of one or more tires, screen page **13** will be displayed. At the same time, the warning light on the instrument panel starts flashing (see page. 93). Then the warning light remains on until the system is calibrated.



Subsequently, the screen page reappears with the “icon” symbol in the area dedicated to the warning lights (as for other **priority level 2** malfunctions).

The system can be calibrated by pressing the specific button for a time ranging between 4 and 10 seconds (see page 94), with the key turned to on. When the button is pressed and the next calibration procedure has been accepted, screen page **14** appears for 5 seconds.



The **TIRES** screen page cannot be recalled by the user.



Before calibrating the system, make sure that the tire pressures correspond to the indicated pressure values (see page 26-27). If this is not the case, the system may issue wrong low pressure indications.

Tire pressure monitoring system failure



Screen page **15** 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, the warning light on the instrument panel starts flashing (see page 93). Then the warning light remains on until the system is calibrated.

The **TIRES** screen page cannot be recalled by the user.

System temporarily not active

When one of the following conditions occurs:

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

screen page **16** is displayed.



At the same time, the warning light on the instrument panel starts flashing (see page 93). Then the warning light remains on until the system is calibrated.

Subsequently, the screen page reappears with the "icon" symbol in the area dedicated to the warning lights **A** (as for other **priority level 2** malfunctions).

The **TIRES** screen page cannot be recalled by the user.

System not active

After turning the key to ON, if the system was deactivated by means of the diagnostic tester, screen page **17** will be displayed. At the same time, the warning light on the instrument panel starts flashing (see page 93). Then the warning light remains on until the system is calibrated.



Subsequently, the screen page reappears with the “icon” symbol in the area dedicated to the warning lights **A** (as for other **priority level 2** malfunctions).

The **TIRES** screen page cannot be recalled by the user.

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

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8. Index



Overview of controls

Opening and closing

Lighting

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



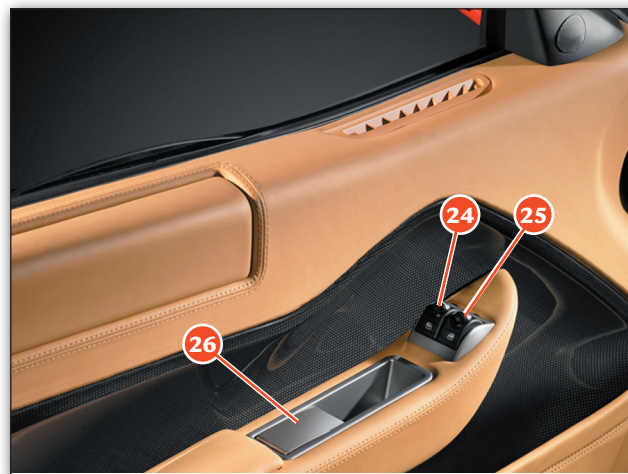


Ref.	Control
1	Adjustable center air vents
2	Glove compartment
3	Hazard warning lights control
4	Glove compartment opening button
5	Parking sensor control
6	Controls for door locking and unlocking
7	Ashtray
8	F1 gearbox Auto button (*)
9	F1 gearbox reverse button (*)

Page	Ref.	Control
125	10	Air conditioning and heating system controls
125	11	Car radio system
77	12	Light switch
126	13	"ENGINE START" button
109	14	"Manettino" control
68	15	"TFT" display
127	16	Tachometer
106	17	Electronic speedometer
101		

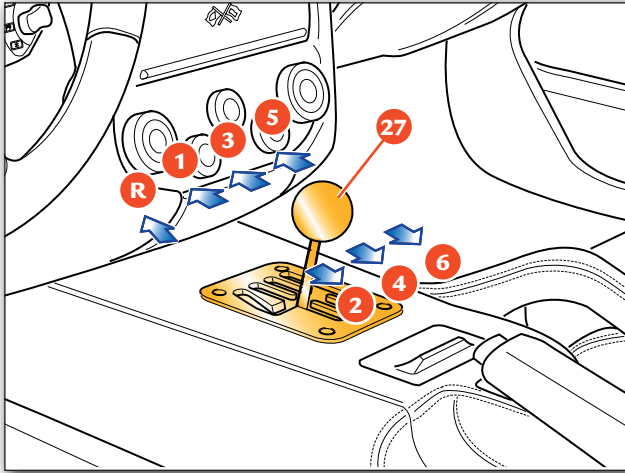
(*) Only for "F1" gearbox version

Page
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Ref.	Control	Page	Ref.	Control	Page
18	External rear-view mirrors adjustment	121	24	Driver-side power window control	72
19	External lights and direction indicators control lever	73, 76	25	Passenger-side power window control	72
20	“DOWN” gearshift lever (*)	97	26	Control for door opening from the inside	69
21	Horn control	97			
22	Windshield washer/wipers/headlight washer control lever	97			
23	“UP” gearshift lever (*)	97			

(*) Only for “F1” gearbox version



Ref. Control
27 Mechanical gearshift lever

Page
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1

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Opening and closing

Doors

Introduction

When a door is opened or closed, the window automatically moves down by approximately 2 centimeters, “*preset position*” **A**, in order to avoid damaging the “*upper weather strip*”. When the door is closed, the window automatically moves back up, position **B**, until it meets the “*upper weather strip*”.

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.

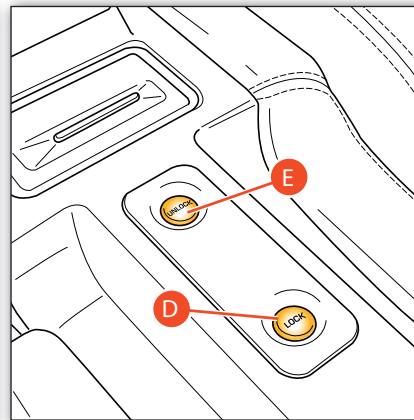
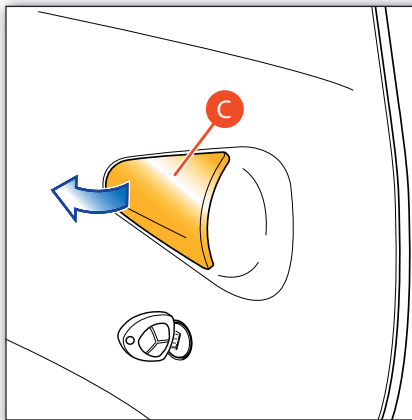
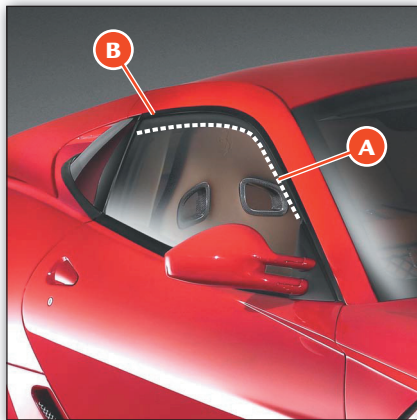
When pulling the handle **C** to open the door, the window moves down by approximately 2 centimeters. When the door is closed, it will move back up until it meets the weather strip.

Locking and unlocking the doors from the inside

Press the “**LOCK**” **D** button for locking both doors and press the “**UNLOCK**” **E** button to unlock them.



Always check that the doors are properly closed to prevent them from opening while driving.



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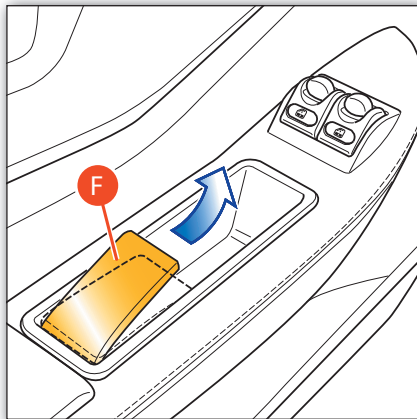
6

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Opening the doors from the inside

Pulling the handle **F** to open the door, the window will lower to the “preset position”.



When the door is closed, it will move back up until it meets the “upper weather strip”.

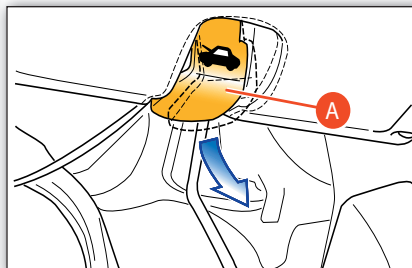
If the handle **F** is pulled without opening the door, the window will lower to the “preset position” but, after 2 seconds, if the door is not opened, the window will rise to the “upper weather strip”.

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

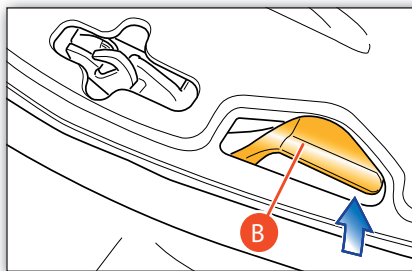
Engine compartment lid

Opening

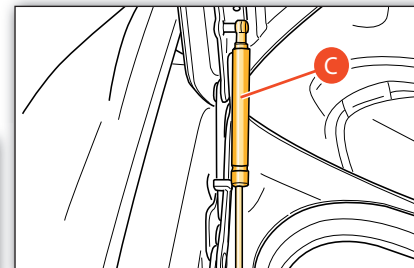
To open the engine compartment lid, pull the lever **A** found beneath the steering column.



Release the lever **B** that retains the lid. This lever is located in the front section of the vehicle, in the center position.



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



Closing

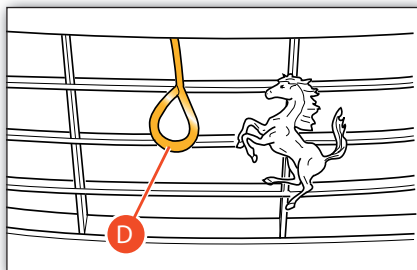
Lower the lid until it is closed and press down near the lock until you hear it click in place.



Always check that the lid is properly closed to prevent it from opening while driving.

Emergency Opening/Closing

If the lid opening lever is not functioning, insert your hand through the fins of the front grill and push until you remove the protective cover from its seat. Grip the ring **D** with your fingers and pull it outwards.

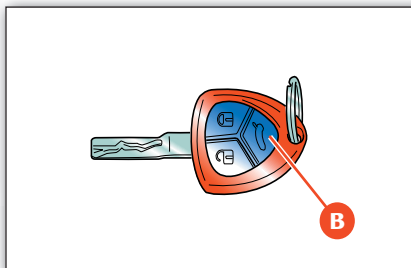
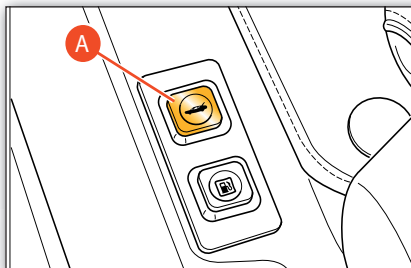


Luggage compartment lid

Opening

To open the luggage compartment lid, press button **A**, or button **B** on the remote control, and hold it 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.



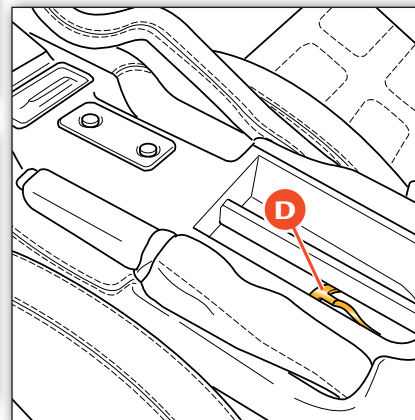
Closing

Using the grip on the inside, lower the luggage compartment lid until it touches the bodywork.

Then press downward on the middle of the lid until you hear the lock click in place.

Emergency Opening/Closing

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 compartment to the right of the lock.

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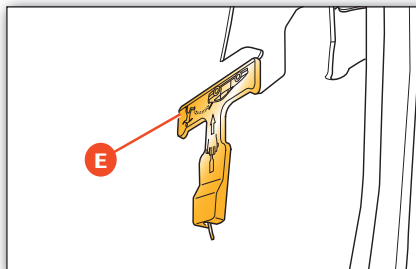
4

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Fuel tank cap and door



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

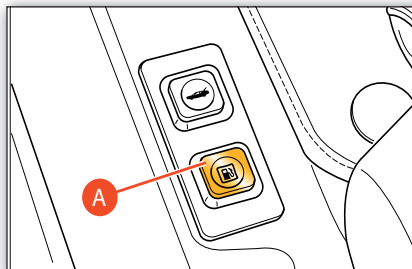
Do not smoke or use open flames during refueling.

The following can be harmful for your health:

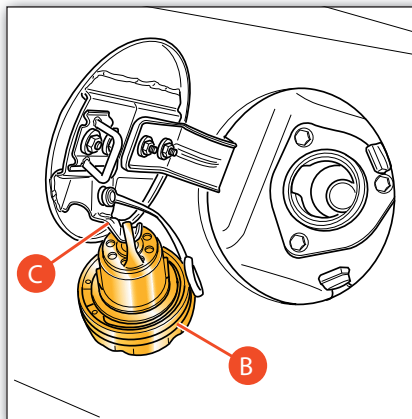
- fuel coming into contact with your skin
- inhaling fuel vapors.

Opening

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



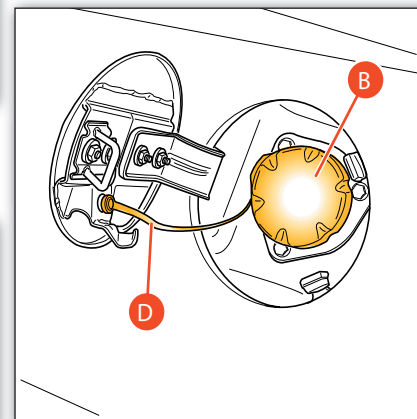
Unscrew the cap **B**, rotating it counterclockwise and hang it on the hook **C**.



Closing

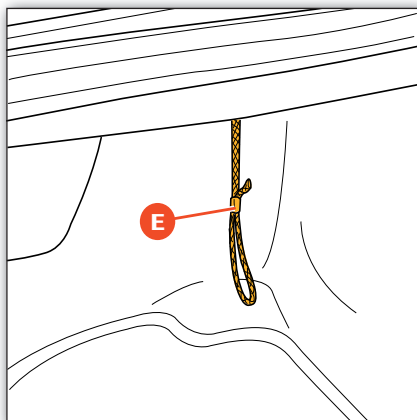
Screw the cap **B** back on tightly and close the fuel tank door.

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



Emergency opening

In the event that the button **A** is malfunctioning, the lid can be opened manually by pulling the cable **E**, located on the left-hand side of the luggage compartment.

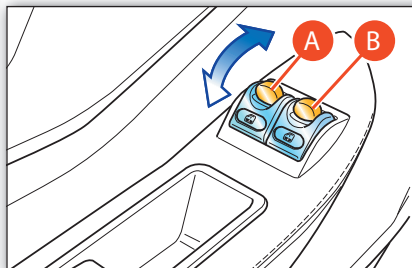


Power windows

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

Driver-side power window

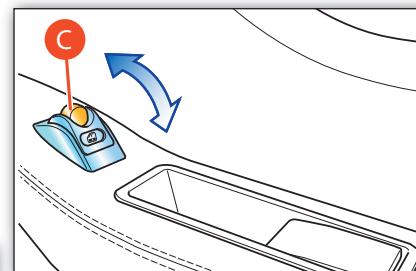
Press button **A** to move the window up or down. This button allows manual operation (partial opening/closing) or automatic operation (complete opening/closing). Press button **A** briefly, to activate manual operation. Hold the button down for a longer time (more than 0.3 seconds) or press it a second time to activate automatic operation, so that the window stops when it reaches the end of its travel.



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

Passenger-side power window

Press 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 pressed at length (over 0.3 seconds) the automatic window operation is activated. The window will only stop when it reaches the end of its travel or by pressing the button again.

When the door is open, the window can only rise to the “*preset position*”, to prevent the window from damaging the upper weather strip when the door is closed.



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

Pay particular attention during the automatic operation of the driver-side power window.

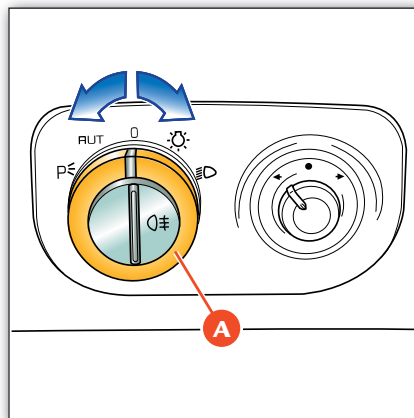
To protect the passengers remaining in the car against accidental operation of the power windows, always remove the key from the ignition.

Lighting

The external lights and the direction 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



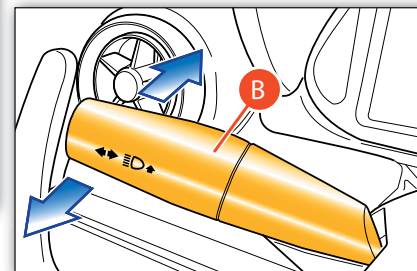
Switch **A** has five positions:

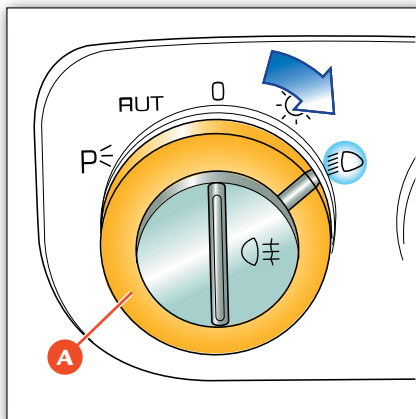
- 0** Lights off
- Position and license plate lights on (*)
- Low beams on (*)
- Parking lights on
- AUT** Automatic operation of the external lights according to the ambient light.

(*) The relative warning light on the instrument panel illuminates (see page 93).

High beams

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





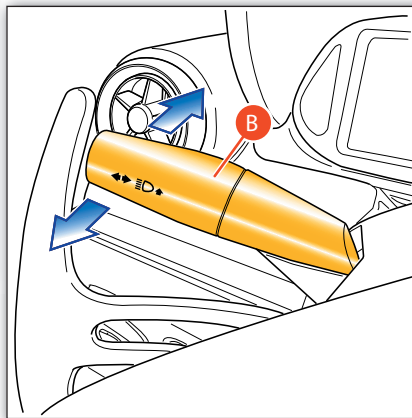
When the high beams are on, the relative warning light  illuminates on the instrument panel (see page 93).

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 country 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 occurs also with lights off, if the ignition key is in position **II**.

The high beams are used for flashing.

Follow the Road Regulations of the country you are traveling in for using the high beams.

Parking lights

The parking lights work only with the ignition key in position **0** or with the key 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** downward to turn on the left-hand position lights. Move the lever upward to turn on the right-hand position 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 **B** toward the dashboard.



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



In case of fog during the day, the position lights and low beams will not activate 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, also the rear fog lights are turned off (if active) automatically. Therefore, if necessary, the user will have to turn on the rear fog lights manually upon the next automatic activation.

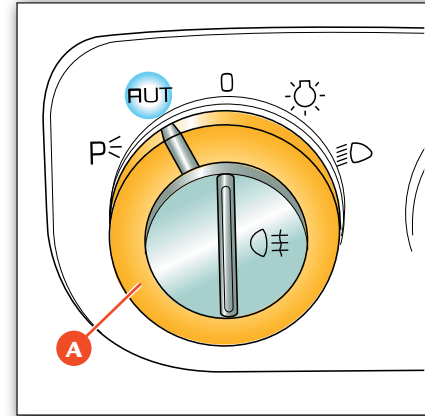


The driver is always responsible for turning on the external lights, depending on the ambient light and in compliance with the regulations in force in the country of use. The automatic system for turning on and off the external lights must be considered an aid for the driver. If necessary, turn the lights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

Twilight sensor

The twilight sensor is comprised of a global sensor, which measures the ambient light.

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



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

In this case, we recommend that you deactivate the automatic system and turn on the external lights manually if necessary.

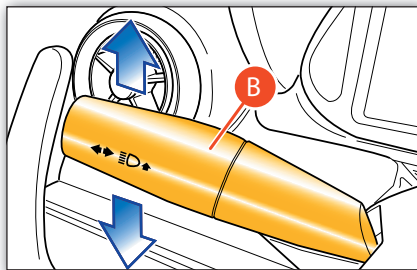
Contact your AUTHORIZED FERRARI DEALER as soon as possible.

Direction indicators

When lever **B** is:

- moved up, the right-hand direction indicators are activated
- moved down, the left-hand direction indicators are activated.

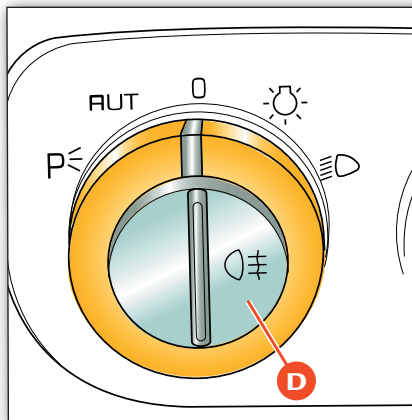
The relative warning light  will illuminate on the instrument panel.



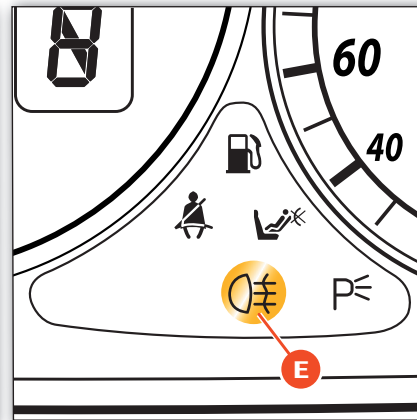
The lever returns to the neutral position automatically when the steering wheel is straightened.

To indicate a temporary lane change, requiring only the slightest turn of the steering wheel, it is possible to shift the lever without clicking it into position (non-permanent position).

Rear fog lights



These can be activated only when the high or low beams are on, by pressing button **D**. The relative warning light **E** on the instrument panel will illuminate.



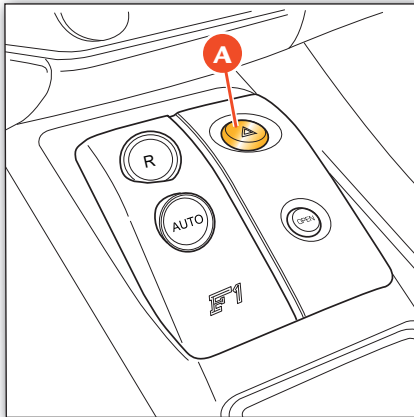
Use the rear fog lights only in poor visibility conditions.

Hazard warning lights

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

When the lights are on, the relative warning lights on the instrument panel and the button will flash.

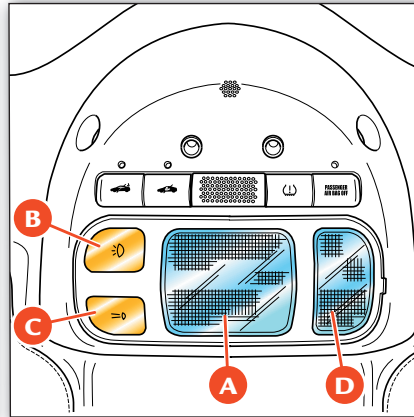
To turn them off, press the button again.



Dome light

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

Switch **C** turns on the spot light **D**.



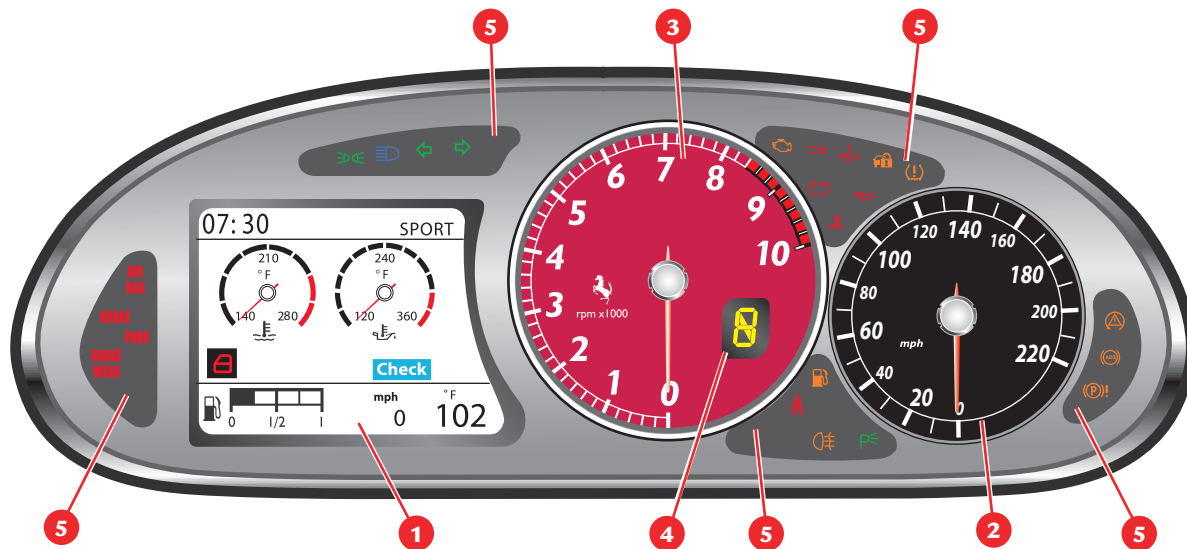
The dome light activates automatically in the following conditions:

- 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 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 inertia switch is reactivated.

Instruments and gauges



Instruments and gauges

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

“TFT” display

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

- indication of the control parameters
- indication of general information while driving
- fault warnings.

The driver can interact with the system by choosing graphic configurations and setting the parameters.

Three different screen areas are available, depending upon the display type chosen:

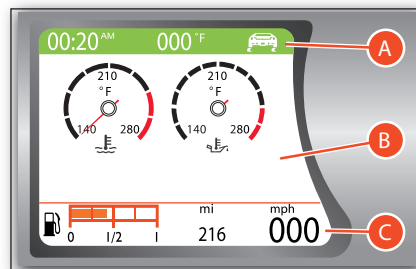
- A** display of information shared by all configurations (with the exception of the driving mode symbol)
- B** display of virtual control gauges and of information generated by specific events and/or on request
- C** permanent display of information (shared by all configurations).

The screen areas **A** and **C** are always present in all display configurations set by the driver.

The screen areas **B** and **C** can be displayed with two color options:

- day (white background)
- night (black background).

The screen area **A** can be displayed with five different color options, based on the driving modes set through the “Manettino”.

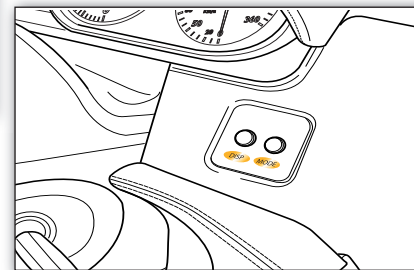


The screen page is activated and set by pressing the buttons **DISP** and **MODE** on the control panel, to the right of the steering wheel, and by pressing the buttons **UP**, **DOWN** and **ENTER** located behind the steering wheel.

MODE

Button pressed momentarily (< 2 sec):

- the “complete” **MENU** page is displayed if the vehicle speed is below 3 mph – 5 km/h
- the “minimized” **MENU** page is displayed if the vehicle speed exceeds 3 mph – 5 km/h
- within a submenu: back to last page displayed
- odometer flashing: back to previous information
- exits the display of the various check phases when the key is turned to ON
- the malfunctions are iconized if the button is pressed during fault warnings.



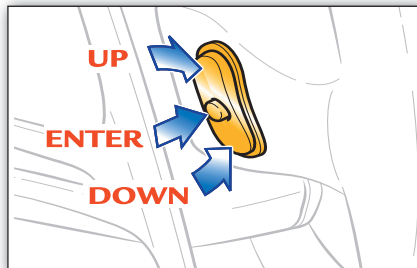
Button pressed at length (> 2 sec):

- **MENU** page not active and **TRIP B** disabled: resets **TRIP A**
- **MENU** page not active and **TRIP B** enabled: selects the odometer displayed (flashing) (either **tot**, **A** or **B**)
- **MENU** page active: back to last page displayed before **MODE** button was pressed.

DISP (DISPLAY)

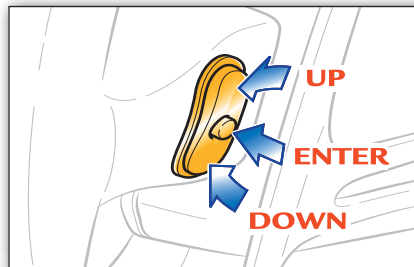
Scrolls through the following screen pages:

- **SPORT**
- **RACE**
- **TRIP A**
- **TRIP B**
- **TIRES**



UP/DOWN

- Sets/adjusts the functions in 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 sensor's sensing range.



ENTER

- **MENU** page not active: switches between the information displayed:
 - total odometer
 - **TRIP A**
 - **TRIP B** (if enabled)
- confirms the selected function

- confirms the setting/change
- stores the changes confirmed
- **TRIP A** is reset, when **TRIP B** is enabled, only after pressing the **MODE** button at length (**TRIP A** flashes).

Configurations:

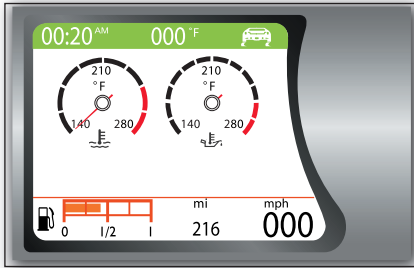
The display **B** can have the following configurations, which are selected using the **DISP** button (the screen page recalled is active for ten seconds), or from the **MENU** page, using the **MODE** button (the screen page recalled remains displayed as the main screen page):

- **SPORT**
- **RACE**
- **TRIP A**
- **TRIP B**
- **TIRES**

SPORT screen page

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

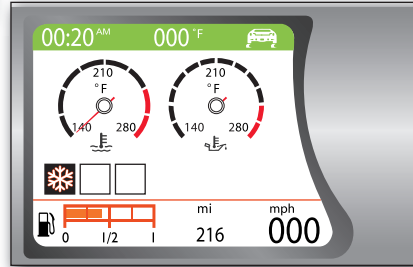
- water temperature
- oil temperature.



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



In case of malfunctions/events which need to be displayed through a multi-function symbol, this will be viewed, at the end of the display cycle, in one of the three dedicated sections of area **B**.

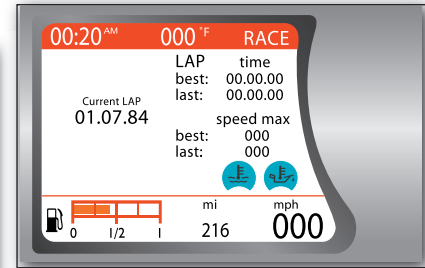


RACE screen page

 **RACE mode must be used only on race tracks.**

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

- the virtual water and oil temperature gauges (minimized)
- Current Lap
- Best Lap
- Last Lap
- Max-Speed Best
- Max-Speed Last.



When the virtual control gauges are minimized, they are displayed as symbols. They only use black symbols on a background which can have different colors (i.e., blue, green, red) according to the temperature range.

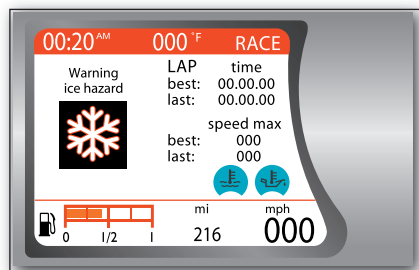
Oil temperature gauge:

- Blue = < 131 °F (55 °C)
- Green = 131 °F (55 °C) - 311 °F (155 °C)
- Red = > 311 °F (155 °C).

Water temperature gauge:

- Blue = < 158 °F (70 °C)
- Green = 158 °F (70 °C) - 257 °F (125 °C)
- Red = > 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 warning lights") the chronometer is deactivated.

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 updates the information about the previous laps (button pressed briefly).

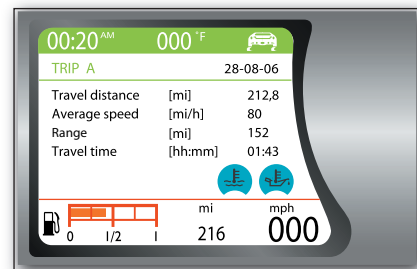
The **RACE** screen page cannot be selected from the **MENU** page when the following driving modes are active: **SPORT**, **LOW GRIP** and **ICE**.

TRIP A and B screen page

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

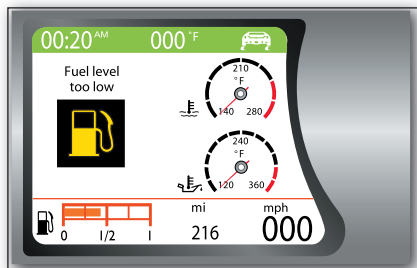
- the virtual water and oil temperature

- the date
- the trip distance
- the average speed
- the cruising range
- the trip 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.

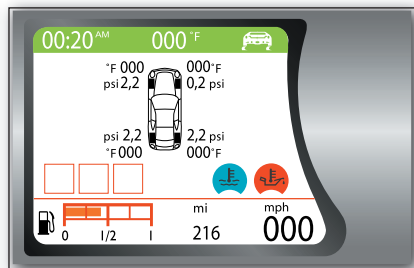


In case of malfunctions/events which need to be displayed through a multi-function symbol, they will be viewed, at the end of the display cycle, in one of the three dedicated sections of area **B**.

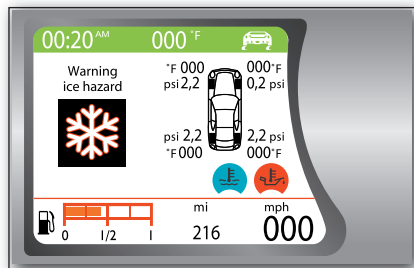
TIRES screen page

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 multi-function 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 configurations:



Odometer

The odometer is always viewed on the TFT display (in area **C**: by pressing the **ENTER** button, the user 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 momentarily or wait 10 seconds.

Fuel level gauge

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

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 – AM/PM” format.

Outside temperature gauge

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

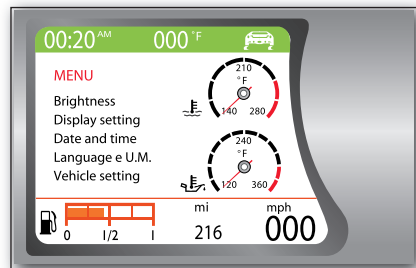
The information is displayed in area **C**, if the speedometer display is disabled. In this case, the word “Manettino” will be displayed in area **A**.

Driving mode symbol

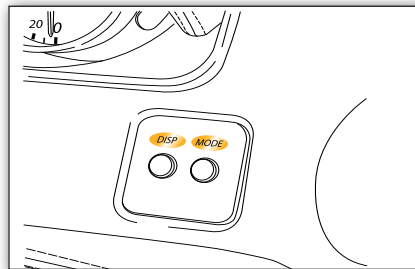
The information is permanently displayed in area **A**.

Configuration settings:

Menu Page



To display the **MENU** page, press the **MODE** button momentarily.



The parameters that may be set are:

- Brightness
- Display setting
- Date and time
- Language and units of measurement
- Vehicle setting
- Service.

To select the above mentioned parameters and the related functions, use the **UP** and **DOWN** buttons.

To confirm the selected parameter, press **ENTER**.

Lighting

The day-time or night-time mode are set depending upon activation of the position lights. However, if the twilight sensor detects sufficient light, it may not switch to the night-time mode. Both options have eight brightness levels which can be set using the **UP** and **DOWN** buttons. To confirm the selected parameter, press **ENTER**.

To adjust the brightness level, you can use the **UP** and **DOWN** buttons without accessing the **MENU** page.

Display setting

In this area the user can choose the configuration that will be permanently displayed. The following options are available: **SPORT**, **RACE**, **TIRES**, **TRIP A** and **TRIP B**. The RACE screen page is not available when the “Manettino” is set to **SPORT**, **LOW GRIP** or **ICE**.

Date and time

The date may be displayed in two formats: day/month/year or month/day/year. Press the **UP** and **DOWN** buttons to select the desired format and adjust the date. Press **ENTER** to confirm.

The time may be displayed in the “24h” or “12h – AM/PM” format. To select the format and adjust it, use the **UP** and **DOWN** buttons and confirm with **ENTER**.

Language and units of measurement

The language options available are:

- English
- German
- Italian
- French
- Spanish.

The units of measurement options are:

- distance (km or miles)
- temperature (°C or °F)
- pressure (bar or psi).

To select the parameters, press the **UP** and **DOWN** buttons. To confirm the selected parameter, press **ENTER**.

Vehicle setting

The parameters that can be changed are:

- Park. sensor*
- Door locking
- Door unlocking
- Speed limit buzzer
- Buzzer volume
- Light sensor
- Glove compartment button
- RPM rep. on the steering wheel
- Equalizer.

* if the vehicle is equipped with optional parking sensors

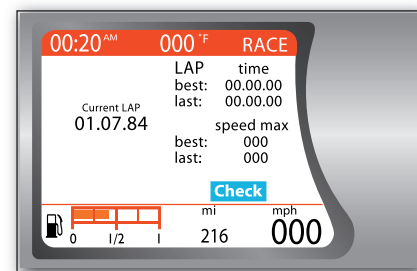
To select the parameters, press the **UP** and **DOWN** buttons. To confirm the selected parameter, press **ENTER**.

Service

Select **Service** to view the MAINTENANCE SCHEDULE (see “Warranty and Service Book”).

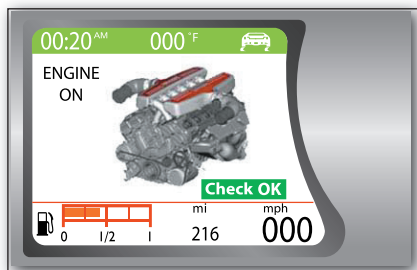
Displayed information upon key-on

When the key is turned to ON, the check procedure is started and the word “**Check**” will be displayed in area **B**, on a pale blue background. The main screen pages that normally display the virtual water and oil temperature gauges (minimized) 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.



TFT display warning lights

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 center 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).

It may be associated with messages.

Contact your AUTHORIZED FERRARI DEALER.



Fuel reserve

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



Battery conditioner connected

When the instrument panel is on, it indicates that the connection with the battery conditioner is active (priority level 0).



Inertia switch

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



Alternator

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).

1

2

3

4

5

6

7

8



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 a malfunction or failure of the Ignition/Injection System and/or the Emission Control System (priority level 0).



Generic failure

Indicates a generic failure (priority level 0). A failure message is associated with the warning light.



Lights failure

Indicates a system failure or burning-out of the light bulbs in the position, direction indicators or rear fog lights (priority level 2).



Number plate lights failure

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



Twilight sensor failure

Indicates a twilight sensor failure (priority level 2).



Stop lights failure

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



Seat heating

Indicates that the seat heating function is active (front RH/LH). (Remains displayed for 5 seconds)



Catalytic converter temperature

If flashing, it indicates that the catalytic converter temperature is too high: slow down until the warning light goes off (priority level 1). A failure message is associated with the warning light.

If the warning light remains on without flashing, the catalytic converter temperature is excessively high; stop the vehicle (priority level 0) and turn off the engine so the exhaust system can cool down (see pag. 156). After about five minutes, start the engine again and drive normally. A failure message is associated with the warning light.



Indicates a failure of the catalytic converter temperature sensor (priority level 0). A failure message is associated with the warning light.



Power steering failure

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

Contact your AUTHORIZED FERRARI DEALER.



Fuel tank door open

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



Low F1 gearbox oil level

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

Contact your AUTHORIZED FERRARI DEALER.



Doors or front/rear lids open

Indicates that the doors or front/rear lids are open or improperly closed. The part concerned is highlighted in red (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.



EBD

Indicates an EBD system failure. (priority level 0).

It is displayed together with the ABS warning light.



Stop the vehicle avoiding hard braking. Drive at low speed (max. 25 mph - 40 km/h) to leave the road. Do not drive further and contact an AUTHORIZED FERRARI DEALER immediately.



ASR + CST on

Indicates that the ASR and CST systems are active (priority level 1). A failure message is associated with the warning light.



ASR + CST off

Indicates that the ASR and CST systems are deactivated (priority level 1). This is displayed together with the words CST off. A failure message is associated with the warning light.



ASR/CST failure

Indicates an ASR/CST system failure (priority level 1). A failure message is associated with the warning light.



Stop the vehicle avoiding hard braking. Drive at low speed (max. 25 mph - 40 km/h) to leave the road. Do not drive further and contact an AUTHORIZED FERRARI DEALER immediately.



CCM brake discs worn

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

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



ASR/CST system activation

Indicates that the CST system has activated (priority level 1). A failure message is associated with the warning light.



Tire pressure

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



Airbag system failure

Indicates a system failure (priority level 0). At the same time, the Airbag warning light remains on.

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).



Speed limit exceeded (km/h)

Indicates that the speed limit set by the user has been exceeded (priority level 2).



Driver-side seat belt not fastened

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



Brake malfunction

Indicates that the brake fluid is low or that there is an EBD 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). A failure message is associated with the warning light.



Parking sensor failure

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



Ice hazard

Indicates that the outside temperature is 38 °F (3 °C) or lower, indicating the risk of icy road surfaces.

Drive carefully and slow down as the grip of the tires could be markedly reduced.



In this condition, do not activate "SPORT" or "RACE" mode.



F1 gearbox failure

Indicates an F1 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

See the "Quick reference" guide for the car radio system.



CD-Changer information

See the "Quick reference" guide for the car radio system.



CD, MP3 CD information

See the "Quick reference" guide for the car radio system.



Flashcard information

See the "Quick reference" guide for the car radio system.

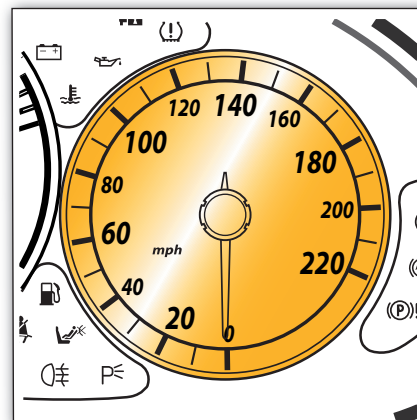


Telephone

See the "Quick reference" guide for the car radio system.

Electronic speedometer

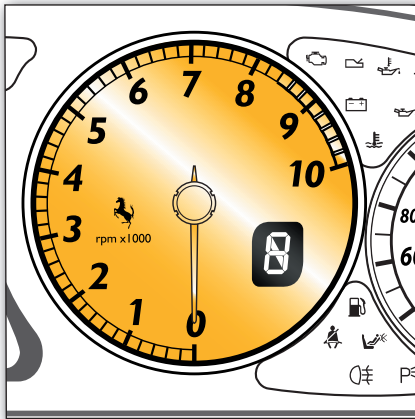
Indicates the vehicle speed.



If the external temperature is not displayed, the speed will also be shown on the TFT display.

Tachometer

Indicates the engine 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.

Gear display (F1)

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

N	Neutral
R	Reverse
1	1st gear
2	2nd gear
3	3rd gear
4	4th gear
5	5th gear
6	6th gear
Auto	Automatic gearshift mode
Auto▼	Easy exit 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 the self-check performed before ignition, the warning lights may illuminate in the following cases:

(x) associated with a specific TFT display warning light

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



ABS (x)

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 (x)

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



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



ASR/CST failure (x)

Indicates an ASR/CST system failure.



Stop the vehicle avoiding hard braking. Do not drive further and immediately contact your AUTHORIZED FERRARI DEALER.



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

BRAKE



Failure of all the braking systems “ABS – EBD – CST” (x)

When the three warning lights illuminate simultaneously.



Danger of rear wheels locking and risk of spinning.

Stop the vehicle avoiding hard braking. Do not drive further and immediately contact your AUTHORIZED FERRARI DEALER.



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

PARK

Parking brake

When the handbrake is applied.



Alternator failure (x)

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

BRAKE WEAR

Brake pad wear (x)

Indicates that the brake pads are worn.

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



Oil pressure (x)

Indicates that the engine oil pressure is too low.

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

Indicates that the specific sensor is faulty.



Oil temperature (x)

Indicates that the engine oil temperature is too high.

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

Indicates that the specific sensor is faulty.



Engine coolant temperature (x)

Indicates that the engine coolant temperature is too high.

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

AIR BAG

Airbag system failure (x)

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 on while driving, contact your AUTHORIZED FERRARI DEALER immediately.



F1 gearbox failure (x)

- 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.



Seat belt (x)

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



On-board diagnostic system (OBD) (x)

It indicates a malfunction in the emission control system and/or ignition/injection system.

After turning the ignition key to position **II**, this remains on for a self check for eighteen seconds following engine starting.



Fuel reserve (x)

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



Direction indicator

When the direction indicators are activated.

When the hazard lights are turned on.



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 light control button is pressed.



Rear fog lights

When the rear fog lights are turned on.



Alarm system failure (x)

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

Contact your **AUTHORIZED FERRARI DEALER**.



ASR + CST off (x)

Indicates that the ASR and CST systems are deactivated.



Tire pressure and temperature monitoring system

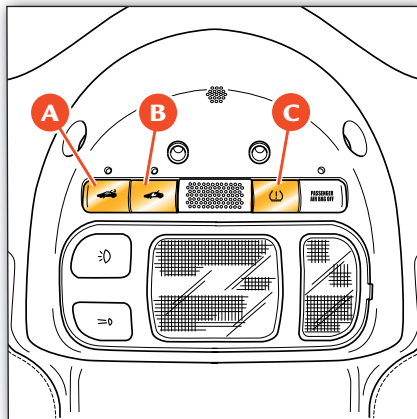
Warning light connected with the tire pressure and temperature monitoring system (on page 56).

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 above 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 above the button flashes for about 3 seconds and then turns off.

Tire pressure 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, please see the “Tire pressure and temperature monitoring system” (on page 55).

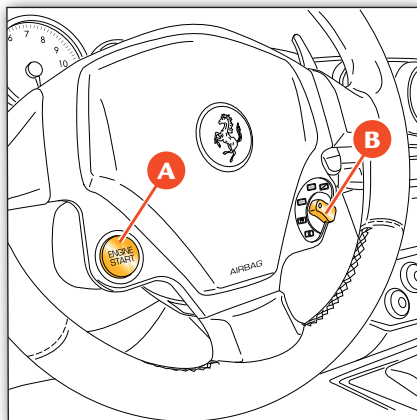
Controls on the steering wheel

Start button

Press the **ENGINE START** button **A** 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 the starting procedure, see “Starting and driving the vehicle” on page 100.



Driving mode selection switch

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

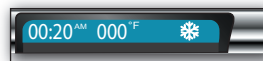
The driver can select the driving mode using the “Manettino” **B**, according to the desired driving style.

In the event of a failure of one of the onboard systems, indicated by the warning light on the instrument panel display (see page 89), the system moves to a “recovery” mode, allowing the vehicle to still be driven. In these cases, contact your **AUTHORIZED FERRARI DEALER**.

ICE mode

This mode can be used when the road conditions are particularly slippery (e.g., snow, ice).

Activation will be indicated by the **ICE** symbol in the dedicated area on the TFT display.



For use, see on page 115.

LOW GRIP mode

This mode can be activated when driving comfort is required, even for sports-style driving, to help ensure stability in low and medium grip conditions. This mode is recommended also for city driving. Activation will be indicated by the **Low Grip** symbol in the dedicated area of the TFT display.



For use, see on page 115.

SPORT mode

This is the ideal setting for vehicle performance.

Select **SPORT** mode for sports-style driving, under high-grip conditions.

Activation will be indicated by the **SPORT** symbol in the indicated area on the TFT display.



For use, see on page 115.

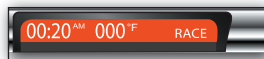
RACE mode



RACE mode must be used only on race tracks.

RACE mode is designed to further enhance the racing style performance of the vehicle. Activation will be indicated by the **RACE** symbol in the dedicated area on the TFT display.

This mode is ideal for using the vehicle on the race track.



For use, see on page 116.

Deactivating the CST system (CST)

Select this mode to deactivate the **CST** system (always active when the engine is started).



Deactivation of this mode will be indicated by the warning light **A** on the instrument panel and by the ASR/CST failure warning light with the message “CST off” appearing on the TFT display for 5 seconds.

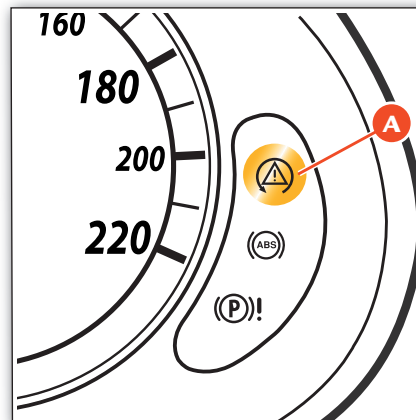
In addition, **CST** deactivation will cause the **RACE** and **CST** symbol to be displayed in the dedicated area on the TFT display.

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

When the **CST** feature is active, the warning light **A** starts flashing on the instrument panel, and the relative warning light on the TFT display illuminates accompanied by the message “ASR/CST active”.

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 comes on, it means that there is a fault in one of the **CST** system components.



Contact an **AUTHORIZED FERRARI DEALER**.

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

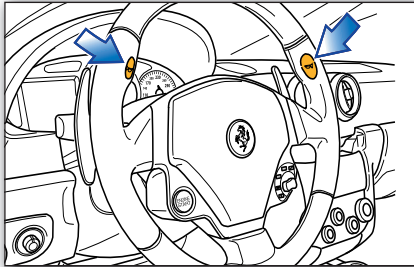
The **CST** system reactivates automatically, even in **CST** mode, when the brake pedal is depressed.

When the brake pedal is released the **VDC** system deactivates.

For use, see on page 116.

Horn control

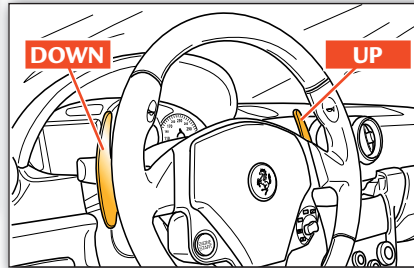
Press the upper sides of the steering wheel rim, in position with the horn symbol, to activate the horn.



“UP” gearshift lever (vehicles with F1 gearbox)

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

For use, see “Starting and driving the vehicle” (F1) on page 100.



“DOWN” gearshift lever (vehicles with F1 gearbox)

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

For use, see “Starting and driving the vehicle” (F1) on page 100.

Windshield washer/wipers and headlight washer

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. In this position, the rain sensor’s sensing range can be adjusted (lever pushed down to first click).

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

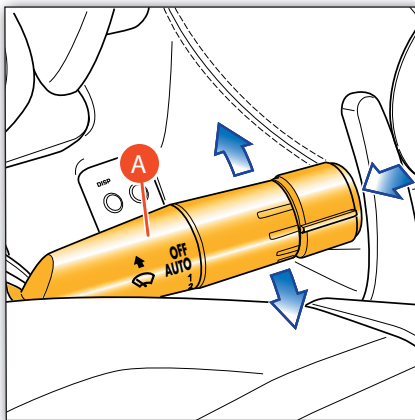
2 Fast continuous operation (lever pushed down to third click).

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.

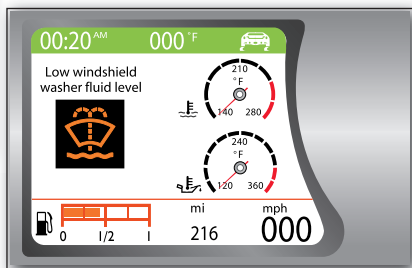


Do not operate the windshield washer during the cold months until the windshield has warmed up. If it has not warmed up, the liquid could freeze on the glass and block the view.

Headlight washer (optional)

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, and a low fluid level is indicated by the relative warning light on the TFT display.



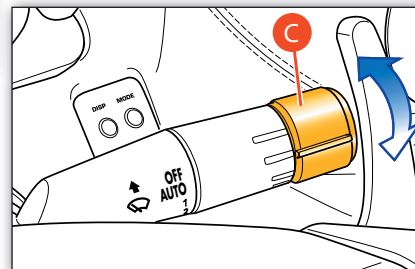
Rain sensor

The rain sensor automatically adjusts 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 at **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 key 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 at position **0**. The rain sensor must be deactivated also 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.

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

Driving the vehicle

Running-in

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 run-in, especially in the first hours of driving the vehicle.

Engine and transmission

Avoid exceeding 5000 RPM for the first 620 mi. (1000 km).

After starting, do not exceed 4000 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-view mirror adjustment (center and sides).

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. (1000 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.

Recommended lubricants and fluids



Use unleaded fuel only!

Using leaded fuel would permanently damage the catalytic converters.

To help ensure optimum engine operation and the best vehicle performance, use "Premium Gasoline" with an octane level of 91-94 A.K.I.

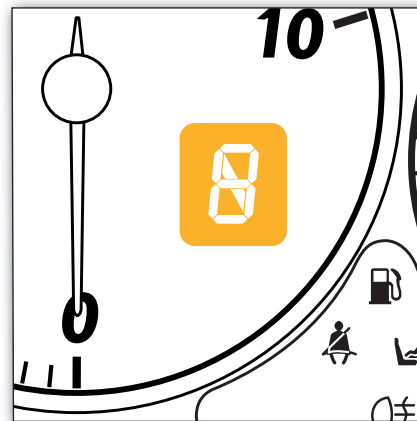
For specifications and quantities of lubricants and fluids, follow the information reported in the "Recommended lubricants and fluids" table on page 30.

Starting and driving the vehicle (F1 gearbox)

System starting

When the ignition key is turned to position II the gear display and all its segments, as well as the relative failure warning light illuminate. 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 sec.) and then turn off: the system completes the “start-up” phase and will then start functioning normally. Avoid entering any commands in the system during this stage.

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

If the warning light 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 corrected.

Operation with the engine off

The default setting for the F1 gearbox is always “AUTO” mode.

Every time the vehicle is started, the F1 gearbox is in “AUTO easy exit” mode, unless the gearbox was in “AUTO” mode when the engine was turned off (see page 106).

To exit “AUTO easy exit” mode, operate one of the levers **UP** and **DOWN** (when the vehicle is moving) or press the **AUTO** button on the center console.

Once the “System start-up” phase has been completed, the gear engaged will appear on the display:

N (Neutral)

R (Reverse gear)

1 (1st gear)

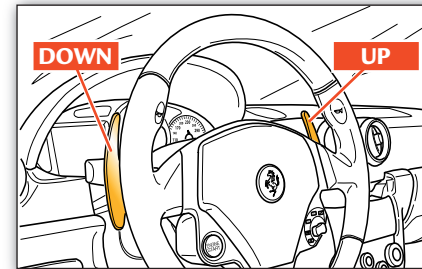
2 (2nd gear), etc.

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.

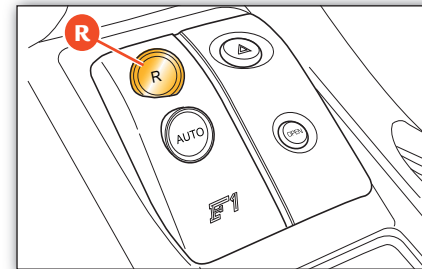
When the engine is off, **1st** gear, reverse gear **R** and neutral **N** can be engaged. Holding the brake pedal depressed during the request, proceed as follows:

N: pull both the levers located 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 display.

Release the **UP** and **DOWN** levers and the button **R** soon after the gear engaged is shown on the display. Continued operation may activate the failure warning light (see page 92) and the acoustic alarm.

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

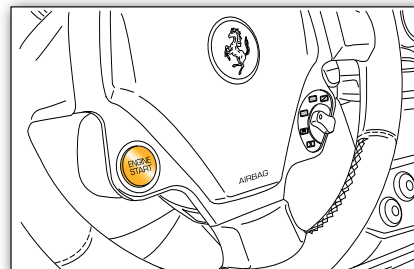
Also avoid unnecessary gearshifting when the engine is off, in order to prevent the system pump from overheating.

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 (F1 gearbox)

- Ensure that the handbrake is engaged and that the doors are closed.
- It is advisable to keep the brake pedal pressed 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 is always started 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. Do not hold the **ENGINE START** button down for a long time.



- 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 gear 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, check for one of the following causes:

- insufficient speed of the starter motor (dead battery)
- ignition device faulty
- electrical contacts faulty
- fuel pump fuses blown.

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

Driving the vehicle (F1 gearbox)

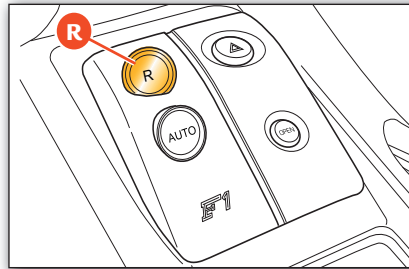
With the engine started, the vehicle stationary and the brake pedal pushed, pull the right-hand **UP** lever towards the steering wheel to engage 1st gear.



Use 1st gear for parking or for starting uphill.

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

As soon as a gearshift is requested (with the vehicle in motion) using the levers **UP** or **DOWN**, the system will exit the “AUTO” 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** lever towards the steering wheel.

When reverse gear is engaged, an acoustic safety signal beeps intermittently for the entire time that **R** remains 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 depressed 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 skidding of the driving wheels, even in good grip conditions.

Gearshifting (F1 gearbox)

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, avoiding a rapid sequence of multiple requests.

UP-shift due to engine overrevving

The system “automatically” engages a higher gear if the accelerator pedal is depressed and the engine approaches the “runaway speed rate” (overrevving). This will not occur when the system is in **RACE** mode and the **CST** system is off.

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-shift due to engine underrevving

- The system shifts down the gears “automatically”, if the engine runs below the minimum RPM, set at 1250 RPM.
- The **DOWN-shift** request from the lever is ignored if gearshifting due to a too low engine RPM (underrevving) is already in progress.

N (Neutral) request

If necessary, N can be requested at any speed.

Subsequently, if **UP-shifting** is requested, the system will engage the gear most suited to the speed of the vehicle.

F1 – SUPERFAST gearshifting

Using the elastic power of the transmission devices and the integrated electronic management of engine and gearbox, the **F1-SuperFast** 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 is reduced to 100 ms (measured as “acceleration gap”).

F1-SuperFast gearshifting activates only in the following conditions:

- “Manettino” set to **SPORT**, **RACE** or **CST OFF**



RACE mode must be used only on race tracks.

- engine running at > 5000 RPM
- lateral acceleration < 0.9 g
- no traction control
- engine water temperature > 158 °F (70 °C) and engine oil temperature > 59 °F (15 °C).

A message on the TFT display will inform the driver that **F1-SuperFast** gearshifting is available.



F1-SuperFast gearshifting is not available in the following conditions:

- “Manettino” set to **ICE** or **LOW GRIP**
- engine running at < 5000 RPM
- 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 (F1 gearbox)

When the vehicle stops, the system automatically engages **1st** gear (unless N has already been requested). With the vehicle stationary and the engine running, hold the brake pedal down until you are ready to start off again.

Turning off the engine and the system (F1 gearbox)

The engine can be turned off either with the gearshift in N or a gear engaged.

After turning the ignition key from position II to position 0, the display will remain on for a few more seconds to display the gear engaged. If the gearshift is in N, a buzzer will sound.



Do not start the vehicle before the display has turned off.

Never leave the vehicle with the gearshift in N. Engage a gear (1st or R), check that the display is not flashing and always apply the handbrake. 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 this case, the failure warning light will illuminate (see page 92) and, before starting off again, the system and the display must be turned off and the “Starting” procedure repeated.

In any event, it is advisable to:

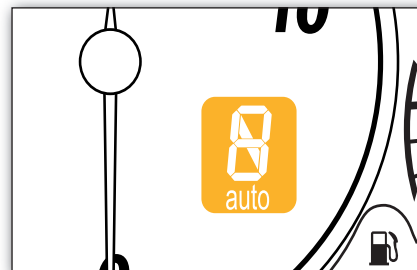
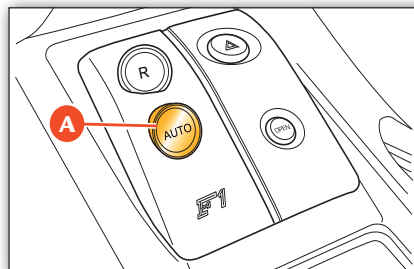
- turn off the engine and the system, holding the brake pedal depressed
- do not request a gearshift while the system is turning off.

Other system functions (F1 gearbox)

“Automatic gearshift” mode

This mode is activated by pressing the **AUTO A** button on the center console.

Activation is indicated by the word **AUTO** shown on the gear display, on the instrument panel and on the TFT display.



The system will automatically shift the gears **UP** and **DOWN** according to the vehicle speed, the engine RPM and the torque/power requested by the driver.

When the vehicle is stationary, if the driver requests N, 1st gear or R, the system will not shift from “Automatic” to “Manual”.

The “Automatic” mode can only be exited by operating the **AUTO A** control button.

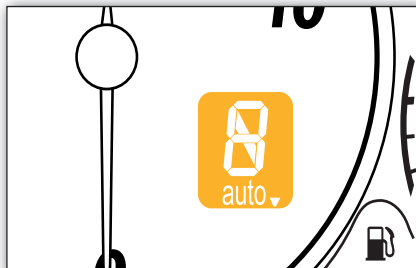
In “Automatic” mode, if you operate the

UP and **DOWN** levers, the system will allow you to shift gears using the lever, but it will then switch back to “Automatic” mode.

“AUTO easy exit” mode

The vehicle is always started in “AUTO easy exit” mode, unless it was turned off with the gearbox in “AUTO” mode.

Activation is signaled by the word **AUTO** ▼ appearing on the gear display, on the instrument panel.



The system will automatically shift the gears **UP** and **DOWN** according to the vehicle speed, the engine RPM and the torque/power requested by the driver.

In “AUTO easy exit” mode, if you operate the control levers **UP** and **DOWN** (with the vehicle in motion) the system will exit “AUTO” mode to switch to “Manual” mode.

If you then request “AUTO” mode by pressing the control button **A AUTO**, the system will use all the “Automatic” mode gearshifting features.

Push start (F1 gearbox)

In the event that the ignition system malfunctions, you can “push start” the vehicle as follows:

- perform the “system starting” procedure (see page 100)
- with the gearshift in N, as the vehicle speed is increasing, request an **UP-shift**.

This procedure should be avoided unless there is an emergency situation!

Restarting the engine (F1gearbox)

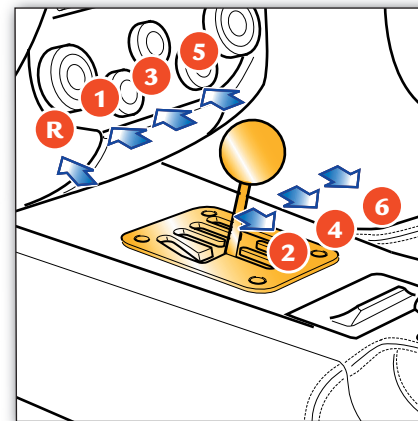
In the event that the engine is turned off accidentally, restart it using the **ENGINE START** button, after turning the key to 0 and then to **II**: the engine will start immediately.

Starting and driving the vehicle (Mechanical Gearbox)

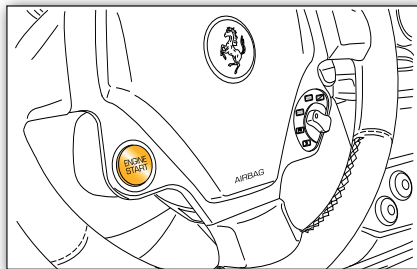
Starting the engine

Before starting the engine, make sure that the alarm system and all electrical devices with high power absorption are turned off.

- Ensure that the handbrake is engaged.
- Put the gearshift lever into neutral.
- Fully depress the clutch pedal without pushing the accelerator.



- 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.
- Press the **ENGINE START** button and release it as soon as the engine starts. Do not hold the **ENGINE START** button down for a long time.



If the vehicle fails to start, turn the key back to position **0** before repeating the procedure.

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

If the engine fails to start after several attempts, check for one of the following causes:

- insufficient speed of the starter motor (flat battery)
- ignition device faulty
- electrical contacts faulty
- fuel pump fuses blown.

Do not run the engine at speeds higher than 4000 RPM until the engine oil temperature has reached at least 149 - 158 °F - 65 - 70 °C.

Driving the vehicle (Mechanical Gearbox)

When the engine has started:

- Fully depress the clutch pedal and move the gearshift lever to 1st gear.



Use 1st gear for parking or for starting uphill.

- Completely release the handbrake.
- Slowly release the clutch pedal while gradually accelerating.
- Then engage the other gears, fully depressing the clutch pedal and moving the gearshift lever into the next position.

When shifting down, be careful not to exceed the maximum permitted engine RPM (indicated on the tachometer in the red area).

- Engage reverse gear only when the vehicle is stationary: push the gearshift lever downwards and then move it to the left and forward.

While driving (Mechanical Gearbox)

Never drive, not even downhill, with the tachometer pointer near the peak engine speed.

When the tachometer pointer approaches peak speed (the red zone), the driver must be very careful to avoid exceeding that limit.

In normal conditions, all the red and amber warning lights (for the suspension and **ASR** systems) on the multi-function display must be off. If on, these lights indicate a malfunction in the corresponding system.

Ensure proper functioning of the various devices by checking the relative control gauges.



Continuing to drive when a red warning light is on could cause serious damage to the vehicle and affect its operation and performance.

After sports-style driving, let the engine idle for several minutes before turning it off, in order to stabilize the temperatures.



Do not coast downhill with the engine off, as the servo brake will no longer function due to the vacuum decrease and thus, after a less braking attempts, the system will become inefficient.

Parking

Apply the handbrake, put the gearshift lever into 1st, whether parking uphill or downhill, turn the wheels inwards and turn off the engine (these procedures are valid for all versions, both with mechanical and F1 gearbox).

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 getting out of the vehicle.



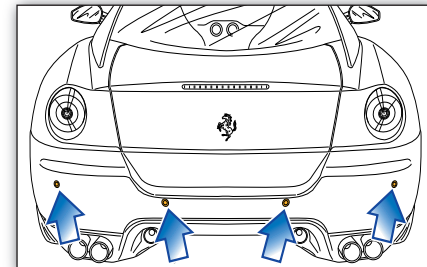
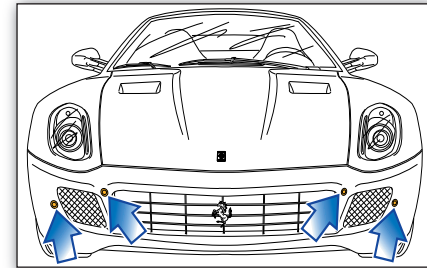
Never leave children unattended in the vehicle.

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.

Do not leave the engine running with the vehicle unattended.

Parking maneuver

To assist the driver during parking maneuvers, the vehicle can come equipped with optional sensors, located in the front and rear bumper.





To help ensure the system proper functioning, the sensors positioned on the bumper must be kept clean (remove any mud, dirt, snow or ice).

When approaching obstacles found in front or behind the vehicle, the parking sensors provide the driver with information on their distance.

The driver receives information about the presence and distance of the obstacles both by means of acoustic signals, the tone frequency of which increases as the obstacle gets closer, and by means of visual warnings on the TFT display (see the “Carrozzeria Scaglietti” User’s Manual).

By supplementing the driver’s direct visual information with that provided by the system acoustic signals and visual warnings, potential collisions can be avoided during maneuvers.



However, the driver remains fully responsible for parking maneuvers and in other potentially dangerous situations. The system has been designed only as a supplementary aid during parking maneuvers, since it allows the driver to detect obstacles outside his 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 parking system sensors, housed in the rear bumper, are activated automatically, with the key at position II, when reversing. If the vehicle is equipped with front sensors, these can be activated by pressing the relative button on the center console.

When reverse gear is engaged, an acoustic signal (beep) warns the driver that the system is active.

The system then begins to beep as soon as an obstacle is detected, and the tone frequency increases as the vehicle approaches the obstacle.

When the obstacle is located at a distance of less than 15.7 in. (40 cm), the beep is continuous.

The warning beep stops immediately if the distance between the vehicle and the obstacle increases.

The tone cycle is constant if the distance measured by the central sensors remains unaltered.

For the TFT display graphic configuration, please consult the “Carrozzeria Scaglietti” User’s Manual.

Cleaning the sensors

When cleaning the sensors, take special care not to scratch or damage them; therefore, do not use dry, rough or hard cloths.

The sensors must be washed with clean water, possibly with car shampoo added.

In car-washes which use steam jet or high pressure cleaning machines, keep the nozzle at least 4 in. (10 cm) away from the sensors.

Should you need to repaint the bumper or in case of paint touch-ups in the sensor area, please contact exclusively your AUTHORIZED FERRARI DEALER. Incorrect painting/touch-ups could affect the parking sensor operation.

Sensor range

The sensors allow the system to monitor the rear of the vehicle, as their position covers the central and lateral zones at the rear of the vehicle.

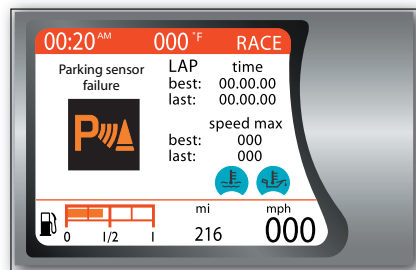
In the event of an obstacle located in a mid area, this will be detected at distances of less than 55 in. (1.40 m), depending on the type of obstacle and its dimensions.

If the obstacle is located in a lateral position, it will be detected at distances of less than 31.5 in. (0.8 m).

Failure signals

The system ECU checks all of the components every time reverse is engaged.

A parking sensor system failure will be indicated on the TFT display.



In the event of a failure warning signal, stop the vehicle and turn the ignition key to position 0 (Stop). Then try to clean the sensors or move away from any ultrasound sources (e.g., pneumatic truck brakes or pneumatic hammers) and turn the key back to II. If the situation causing the malfunction has been corrected, the system starts working again and the failure warning buzzer stops. If the failure warning buzzer remains on, contact your AUTHORIZED FERRARI DEALER to have the system checked.

During parking maneuvers, always take the greatest care as there may be obstacles located above or underneath the sensors.

In certain circumstances, objects located near the rear of the vehicle are not detected by the system and therefore may damage the vehicle or be damaged themselves.

The signals transmitted by the sensors can also be altered by damage to the sensors or by dirt, snow or ice on the sensors or even by ultrasound systems (e.g., pneumatic truck brakes or pneumatic hammers) in the vicinity.



The driver is fully responsible for parking and other potentially dangerous maneuvers. During these maneuvers, always make sure there are no people (especially children) or animals in the maneuvering area. The parking sensors must be considered an aid for the driver who, in any case, must never take less care during potentially dangerous maneuvers, even if they are performed at low speeds.

Proper driving

For 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 rear-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.
- Carefully adjust the headrest so that your head, and not the neck, is resting against it. Make sure that nothing (e.g., floor mat, etc.) is blocking the pedals.
- Check that the lights and headlights are working properly.
- Make sure 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.

- Do not drink alcoholic beverages before and 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.

When 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 of the country in which you are driving, and always respect the speed limit.
- Always make sure that the driver and the passengers have their seat belts fastened and that all children are traveling in suitable child seats.
- Good personal physical conditions ensure you can drive long distances safely.



Drunk driving, or driving under the influence of drugs, alcohol or certain medicines is extremely dangerous for 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 the seat belt and the child seat, if any.

Deactivate the passenger's airbag (where possible) if a child seat is fitted on the front seat.

Do not travel with objects lying around 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 any 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 evaluate the speed of the vehicles by seeing their lights only: 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, as the 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.

- Do not drive through puddles at high speeds as you do not know how deep they may be. Traveling through a puddle at high speed can result in losing control of the vehicle ("aquaplaning"): hold the steering wheel firmly.



If the road is wet, reduce your speed to avoid "aquaplaning" phenomena, during which the tire no longer touches the road surface. This is due to the fact that, when the road is very wet and the vehicle speed is high, the side channels of the tire tread, because of their particular shape or insufficient depth, are not capable of removing all of the water channelled, so that a layer of water exists between the road surface and the tire. The fluid pressure generated is so high as to support the vehicle's weight, making it impossible for the driver to control the vehicle.

- Use the ventilation system to defog the windshield (see page 124) and to avoid visibility problems.
- Periodically check the condition of the windshield wiper blades.

Driving in fog

Whenever possible, avoid driving if the fog is thick. 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 lights. Avoid using the high beams.



On stretches where visibility is good, turn off the rear fog lights, as they are very bright and 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 much as possible, avoid suddenly changing speed and direction.
- As much 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. When 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.

Therefore, be careful when driving along stretches of road in the shade as there may be icy patches.

Driving with the “ABS” braking system

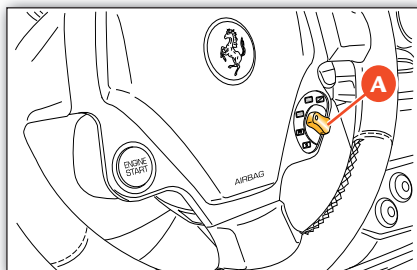
The ABS system assists the driver as follows:

- It prevents 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. Do not release the pedal but continue to push it to give continuity to the braking action.

- The ABS system is designed to 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.

Driving using the “Manettino” (driving mode control switch)

The “Manettino” **A** on the steering wheel, allows the driver to use the vehicle potential in a quick and easy way.



There are five modes available, which can be selected according to the grip level (from low to high) and consequently to the level of driving assistance required (from high to none).



In **ICE** mode, increased stability - which is essential for driving on roads where grip is very low (e.g., snow or ice) - has priority over performance, which is significantly reduced. Traction stability control (CST) is at the maximum level (Level 1). The vehicle has an extremely “smooth” behavior.



Low Grip mode ensures stability on both dry and wet roads. It is therefore recommended on roads where grip is poor (e.g., rain), slippery or extremely uneven roads, but also to enhance comfort during city driving. In this configuration, unlike the previous one, the driver may drive the vehicle using the gearbox as desired. Suspension damping is optimized



to enhance driving comfort and the CST system remains set to the previous level.

SPORT mode is the basic driving mode for the vehicle and provides the best compromise between stability and performance. This setting helps ensure stability only in dry-high grip conditions and not on low-grip road surfaces (in this case, it is advisable to return to **Low Grip** mode). In this mode, the vehicle optimal performance can be experienced on open roads. For this reason, the suspension damping level is shifted to a higher one, so as to enhance performance, handling and stability at high speeds. Also the CST system switches to a different level (Level 2), offering the driver greater driving freedom. The **F1-Trac** system does not correct engine torque significantly when in **SPORT** mode (for this reason, it does not ensure stability on low-grip road surfaces).



RACE mode must be used only on race tracks.

RACE On vehicles equipped with F1 gearbox, gearshifting is faster so as to reduce gear change times as much as possible. The CST shifts to Level 3 (engine power reductions are minimal) and the suspension stiffens further. In this position, the driver has full control of the vehicle and the operation of all engine control systems is reduced to a minimum. Stability is not ensured.

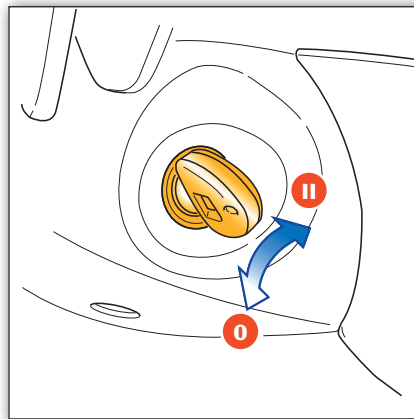
CST The **CST** is deactivated. Vehicle stability is no longer controlled, but is completely in the hands of the driver. The only aids that are still active are those that cannot be deactivated, such as the ABS and EBD. When the brake pedal is depressed, the **VDC** system is reactivated, while the **F1-Trac** system remains deactivated. Gearshifting speed (on vehicles with F1 gearbox) and damping control remain the same as in **RACE** mode.

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!

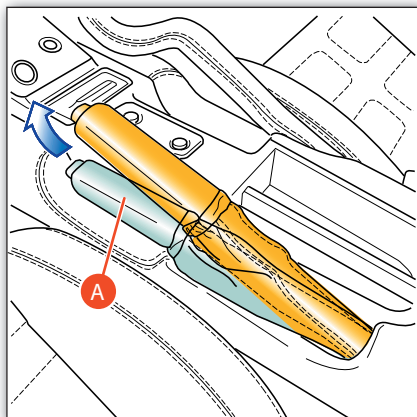
The steering wheel will lock automatically with the first turn of the steering wheel.

Always remove the key from the ignition when you get out of the vehicle!

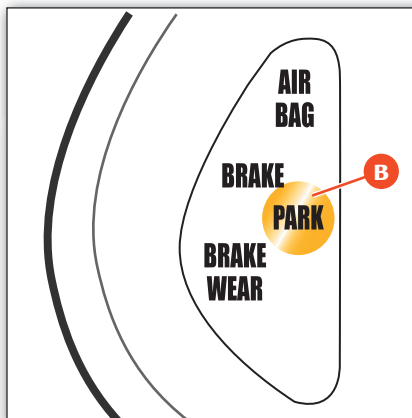
Never leave children unattended in the vehicle.

Handbrake lever

To engage the handbrake, 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 handbrake is engaged.



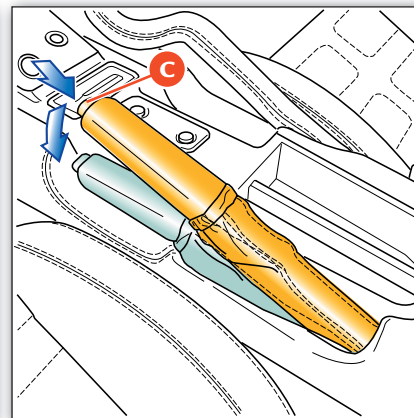
To release the handbrake, slightly pull the lever upwards and press the release button **C**. Lower the lever fully, holding the button pressed.

The warning light will turn off when the handbrake is fully released.



Always apply the handbrake when the vehicle is parked.

After hearing a series of clicks by pulling the handbrake lever, the vehicle should be blocked. If this is not the case, please contact your **AUTHORIZED FERRARI DEALER**.



Adjustments

Seats

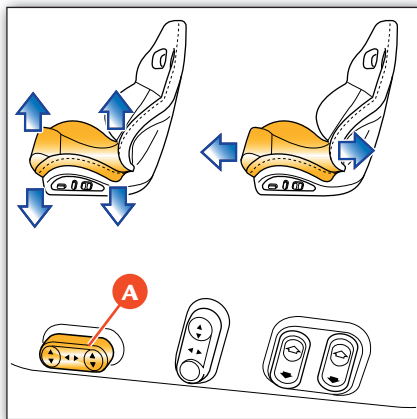
 **Never adjust the seat while driving: you may lose control of the vehicle.**

The seat position can be electrically adjusted using controls **A**, **B**, **C** and **D**.

- height adjustment: push the control upward or downward
- seat inclination (tilting): push the front end of the control upward or downward to adjust the inclination of the front part of the seat cushion; push the rear end of the control upward or downward to adjust the inclination of the rear part of the seat cushion.

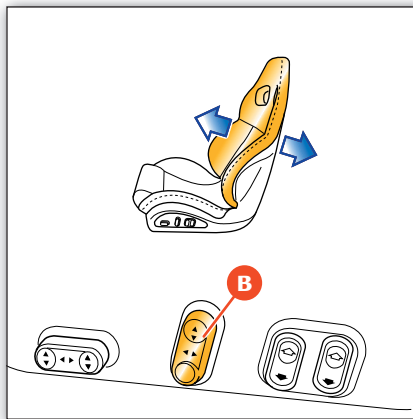
Use control **C** to adjust the seat cushion sides. Push the control on the seat symbols to increase or decrease the seat cushion side supports.

Use control **D** to adjust the seat side support. Push the control on the seat symbols to increase or decrease the seat side support.

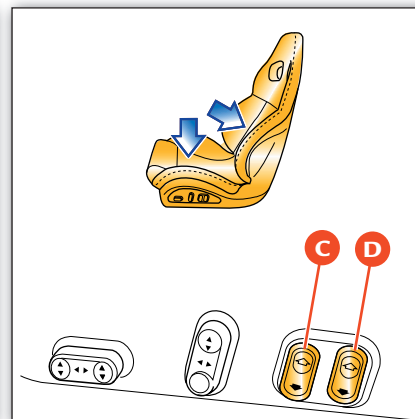


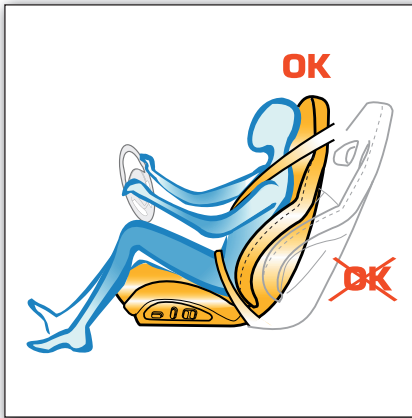
Three adjustments are possible using control **A**:

- forward/backward adjustment: push the control forward or backward



Use control **B** to adjust the seat backrest inclination. Push the control forward or backward to adjust the seat backrest inclination.





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.

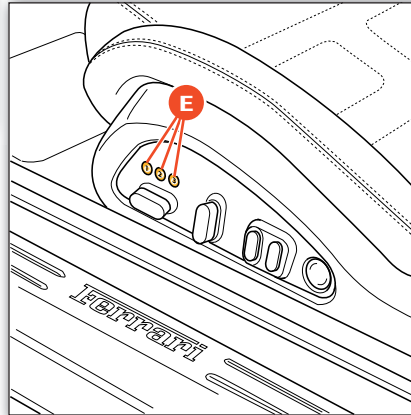
Serious injury could result.

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.

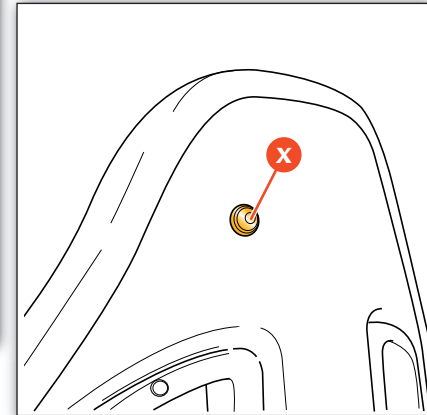
The memorization of a new seat position cancels the one previously stored with the same button.

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.

Backrest tilting

Press button **X** to tilt the backrest forward.



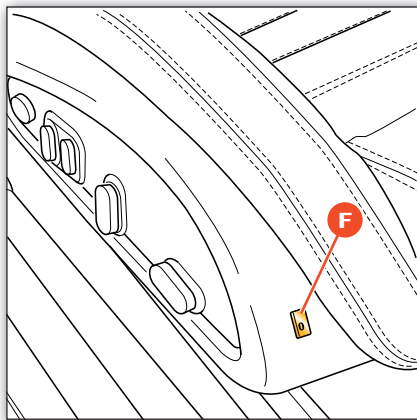
Press button **X** before moving the backrest back to its normal position.

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

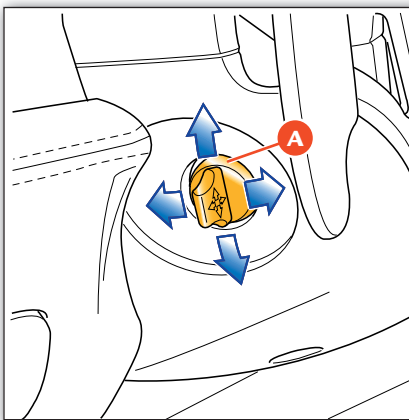
The steering wheel height and depth can be electrically adjusted. It can only be adjusted if the ignition key is in position II.

Move control **A** (to the left of the steering column) in the four directions to adjust the steering wheel.

The steering wheel position is memorized, together with the position of the external rear-view mirrors, when the driver's seat position is stored.



Do not adjust the steering wheel when the vehicle is moving.



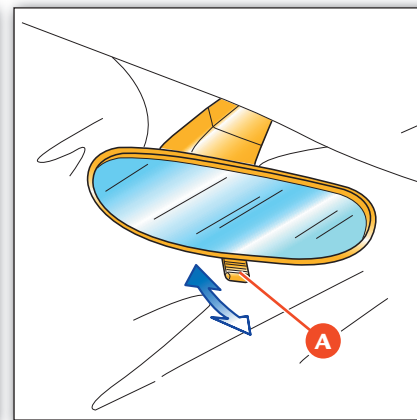
To help the driver when entering or exiting the vehicle, the steering wheel is lifted automatically.

Rear-view mirrors

Internal rear-view mirror

This mirror can be adjusted manually.

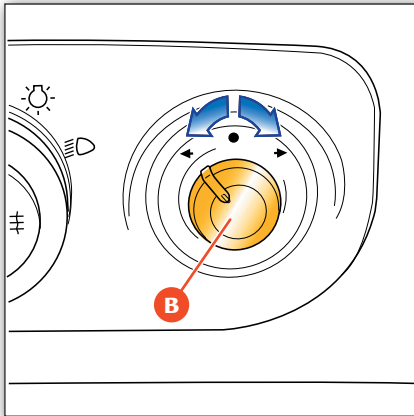
For the anti-dazzling effect, move lever **A** forwards.



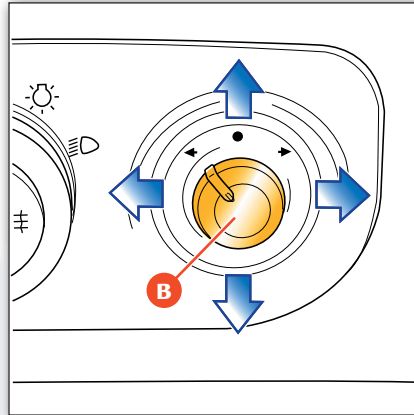
External rear-view mirrors

These mirrors can be electrically adjusted using control **B** (with the ignition key in position **II**) and are equipped with defogging elements.

- 1) Mirror selection: using control **B**, select the mirror you wish to adjust (right- or left-hand).



- 2) Mirror positioning: move control **B** in the four directions (up – down – right – left) to adjust each of the rear-view mirrors.



Once adjustment is complete, move the control **B** into the upper central position, where it will be locked, in order to avoid changing the setting inadvertently.

The mirrors will yield in both directions in the event of a collision: if necessary, the mirrors can be pushed both backwards and forwards.

In the models equipped with memory seats, every time the seat position is memorized, the external rear view mirror position is also stored automatically, both for the normal traveling direction and for reverse maneuvering.

To memorize a new position of the external rear-view mirrors, turn the ignition key to position **II** and adjust the position of the mirrors; then engage Reverse gear and reposition the external mirrors to ensure optimal visibility to perform the maneuver, then disengage Reverse gear.

Finally, press one of the buttons 1, 2 or 3 on the seat (see page 119), each one corresponding to a memorizable position, until a double tone confirms the procedure is complete.

The new position of the external rear-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 mirrors must always be in the open position while driving.

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.

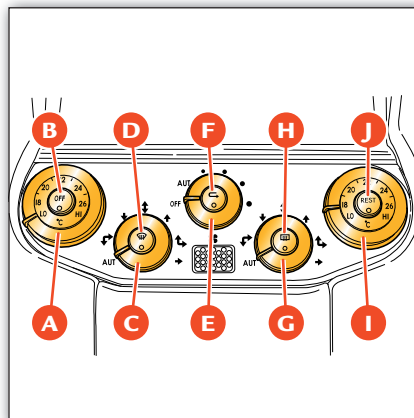
Partially Automatic

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** Left-hand temperature setting
- B** Air conditioning compressor deactivation
- C** Left-hand air distribution setting
- D** Windshield defogging/demisting
- E** Fan speed adjustment
- F** Recirculation function
- G** Right-hand air distribution setting
- H** Rear window and external rear-view mirrors defogging/demisting

I Right-hand temperature setting

J Residual heat function.

Starting

Fully automatic management: turn controls **C**, **E** and **G** to the “AUT” position.

Deactivation

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 distribution controls **C** and **G**



They 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** (for external temperatures lower than 77°F (25°C)).

To activate this function, press the "REST" button 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.

In automatic mode, 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 feature 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 external rear-view mirrors **H**



Press this switch (LED on) to activate the rear window and rear-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

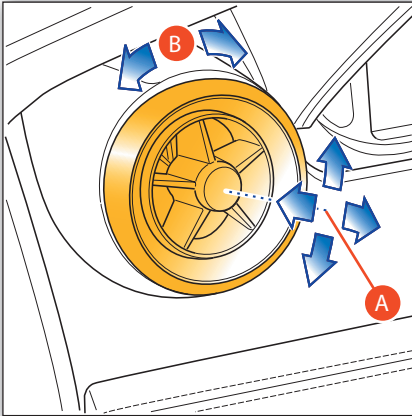
The adjustable air vents are positioned on the sides and in the center of the dashboard.

Air flow direction adjustment **A**.

Air flow rate adjustment **B**.

Turned counterclockwise: open.

Turned clockwise: closed.



It is advisable to keep the air flow control **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".

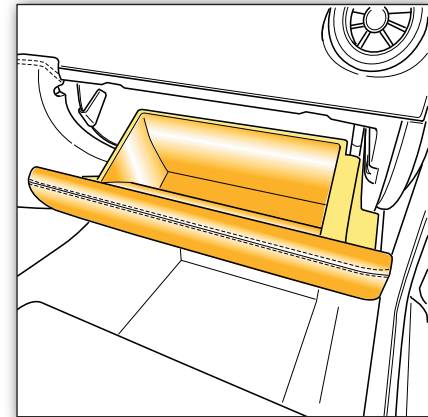
Sun radiation sensor

This sensor is positioned on the instrument panel and it helps optimize ventilation and temperature control inside the compartment, depending upon the angle of the sun rays.

Passenger compartment accessories

Glove compartment

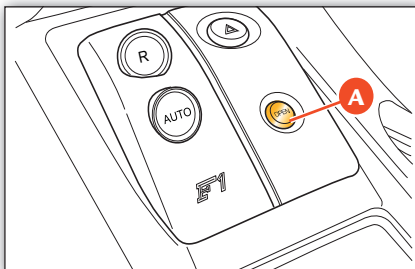
It is located on the passenger's side of the dashboard, and it is always accessible when the key is in position **II**, and for approx. ten minutes after the key is removed or turned to position **0**.



To access the glove compartment, push the button **A** on the center console.

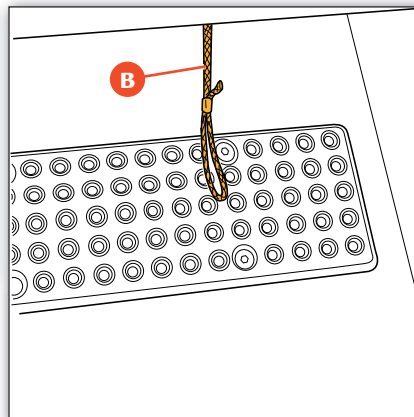
The glove compartment is illuminated by a light which turns on automatically when the door is opened.

 **Keep the glove compartment closed while driving.**



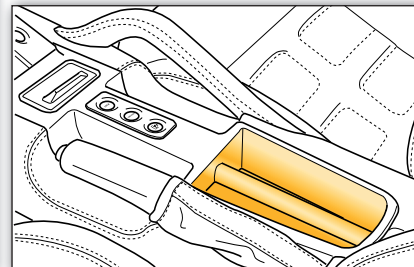
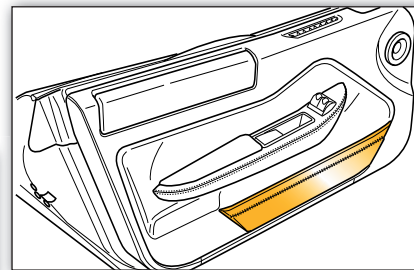
To close the glove compartment, push the upper part of its door until you hear it click into place.

Underneath the dashboard, in position with the external edge of the glove compartment, there is a safety string **B** for manual opening in an emergency.



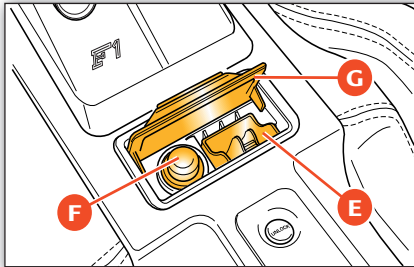
Other compartments

They are located on the lower part of the doors and on the center console.



Ashtray

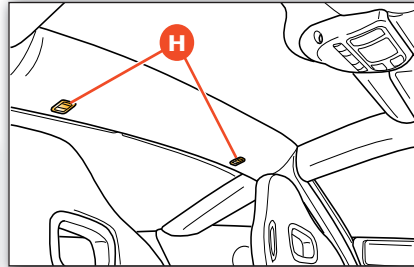
To access the ashtray **E** or the cigarette lighter **F**, push the cover **G** backward. To clean the ashtray, extract it pulling it upward. The cigarette lighter **F** is activated by fully pushing it in. It only works when the ignition key is in position **II**. After reaching the required temperature, the cigarette lighter is automatically released to its initial position and is ready to be used.



⚠ Do not use the cigarette lighter seat as a power socket for electrical items of any kind! The cigarette lighter reaches very high temperatures. Handle it with care to avoid risk of burns and fire. It is possible to connect the emergency tire repair and inflation kit **ONLY** for the time necessary for the operation.

Clothing hooks

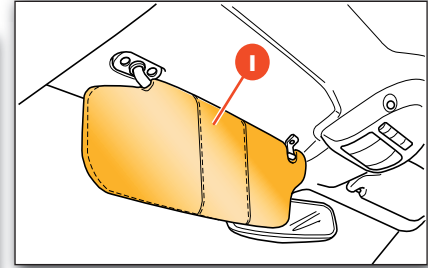
They are fitted in the rear of the passenger compartment. To release the hook, press the button **H**. To reposition the hook, push it upwards into its seat.



Move the hooks to the closed position when they are not used.

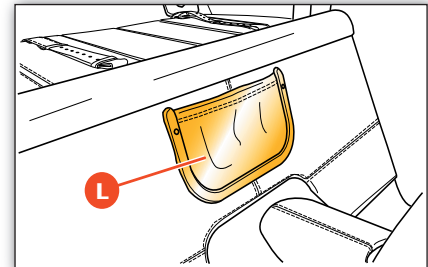
Sun visors

The sun visors can be adjusted by moving them downwards. 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.



1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Table of Notes

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Toolkit

Replacing the headlight bulbs

Replacing the taillight bulbs

Replacing other light bulbs

Light bulbs

Replacing a fuse

Replacing a wheel

Towing hook

Fuel inertia switch

Checking the battery

Exhaust system overheating
alarm devices

Engine malfunction
alarm devices

Replacing the brake pads
and brake discs



In the event of repairs performed using the toolkit provided, you must:

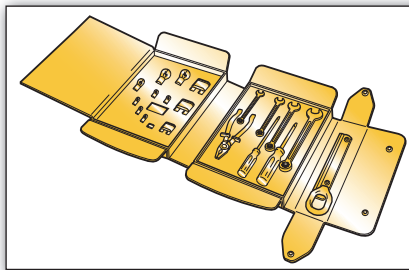
- use suitable personal protection (e.g., gloves)
- take suitable precautions (e.g., when changing a tire, never lie under the vehicle raised on the jack)
- have the basic and specific skills required for working with electrical parts/components.

Toolkit

Toolkit bag

The toolkit bag is found in the luggage compartment and it contains the necessary tools for a first emergency repair work:

- set of flat wrenches
- insulated cutting pliers
- screwdriver for slotted screws
- Phillips head screwdriver
- towing hook
- set of spare light bulbs and fuses.



Emergency tire repair and inflation kit

In the event of a puncture or low pressure of a tire, the kit is designed to repair and/or inflate the tire sufficiently to continue the journey.

For correct use of the repair and inflation kit, refer to the instruction manual supplied with the kit.



Give the kit and instruction manual supplied with the kit to the personnel that will handle the tire repair.



In the event of a puncture caused by small objects, tires can be repaired with tears or holes that have up to a **0.16 in. (4 mm)** diameter on the tire tread and shoulder.



Tears on the sides of the tire cannot be repaired.



Do not use the tire repair kit if the tire is damaged after driving with a flat tire.



If the wheel is damaged and has caused an air leakage, the tire cannot be repaired.

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Do not remove foreign objects (screws or nails) that have penetrated the tire.



After using the repair kit, the vehicle must however be considered to be in an emergency situation: drive with the utmost care (maximum permissible speed 50 mph – 80 km/h).



Place the sticker supplied with the kit where it can easily be seen by the driver to indicate that the tire has been repaired using the tire repair kit.



Drive carefully especially on curves.



Do not suddenly accelerate or brake.



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 dropped to below **26 psi (1.8 bar)**, stop driving: the kit is then unable to provide a tight seal because the tire may be too severely damaged. Contact an **AUTHORIZED FERRARI DEALER**.

If, on the other hand, the pressure is at least **26 psi (1.8 bar)**, pump the tire up to the correct pressure and continue driving.

Drive 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. Harmful if swallowed. Irritating to eyes. 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 when using. 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.



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 local regulations.



The sealant contained in the cartridge in the tire repair kit may damage the sensor fitted inside the wheel rim on vehicles equipped with the tire pressure monitoring system. In these cases, always have the sensor replaced by an **AUTHORIZED FERRARI DEALER**.



Wear the protective gloves supplied with the tire repair kit.

Useful accessories

In addition to the tools supplied with the vehicle, the hazard warning triangle and fluorescent safety jacket should always be kept on board, in order to indicate hazardous situations in compliance with applicable legislation.

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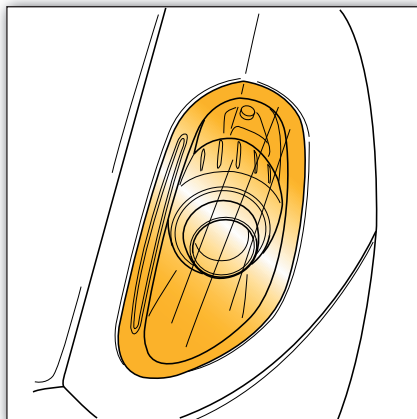
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Replacing the headlight bulbs



The low/high beams are equipped with bi-xenon light bulbs.

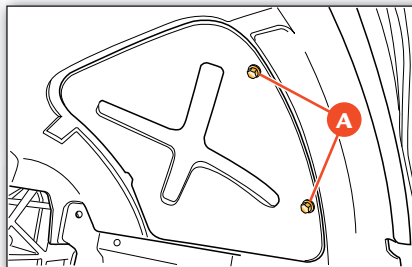
For replacement of the high and low beam light bulbs, contact your AUTHORIZED FERRARI DEALER.

For aiming the headlight beam, please contact your AUTHORIZED FERRARI DEALER.

Replacing the front direction indicator and position light bulbs

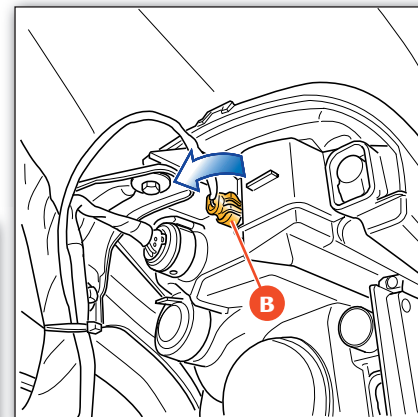
Before replacing a light bulb in the headlights, always turn the ignition key to position 0 and ensure that the relative fuse is intact.

Turn the wheels completely inwards, then undo the screws **A** and extract the panel in the wheelhouse outwards.

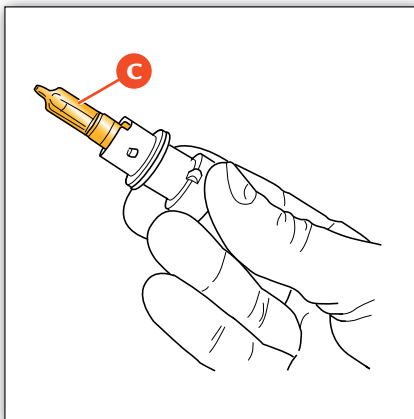


To replace the light bulb of the front direction indicator, proceed as follows:

- detach the connector **B**



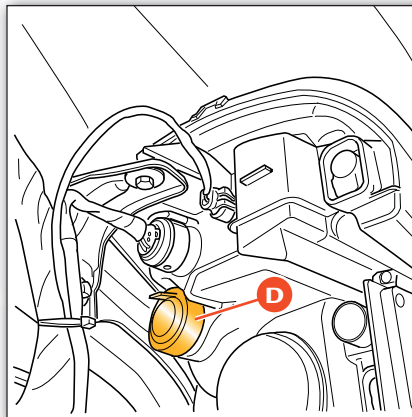
- turn the bulb holder counterclockwise and extract it from its seat



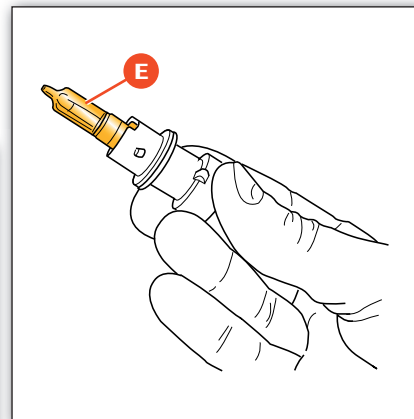
- remove the bulb **C** pulling it outwards
- fit the new bulb by fully pushing it into place
- refit the bulb holder in its seat and turn it clockwise until it locks
- refit the connector.

To replace the **position light bulb**, proceed as follows:

- remove the rubber cover **D** from the headlight



- grip the bulb holder from its tab and remove it from its seat

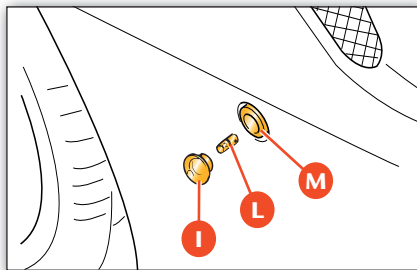


- replace the pressure-fitted bulb **E**
- refit the bulb holder into its seat
- refit the rubber cover **D**.

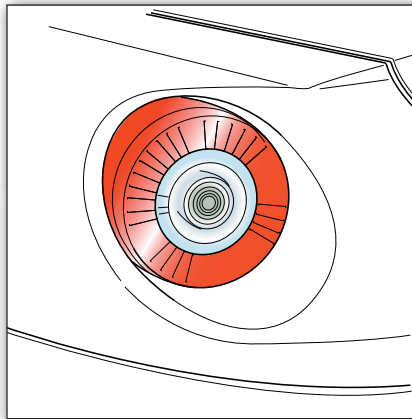
Refit the panel into the wheelhouse.

Replacing the side direction indicator light bulbs

- Remove the transparent cover **I** on 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



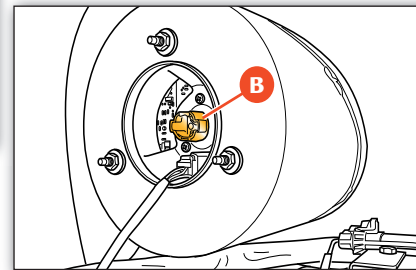
Before replacing a light bulb in the taillights, always turn the ignition key to position 0 and ensure that the relative fuse is intact.

To replace a taillight bulb, proceed as follows:

- partially remove the luggage compartment weather strip



- remove the bulb holder **B**

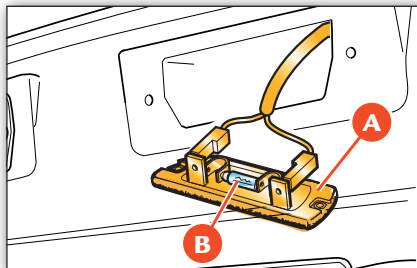


- remove the bulb pulling it outward and replace it
- refit the bulb holder and reposition the luggage compartment weather strip.

Replacing the license plate light bulb

To replace a license plate light bulb, proceed as follows:

- undo the two fastening screws



- remove the transparent cover **A** from its seat and replace the bulb **B**, which is pressure fitted into the two contact clips
- refit the transparent cover and the two fastening screws.

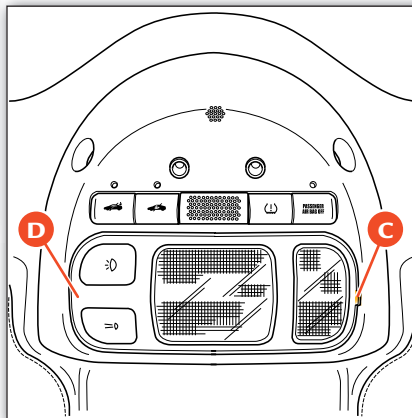
Replacing the auxiliary stop light and side marker bulbs

For replacement, we recommend you contact your AUTHORIZED FERRARI DEALER.

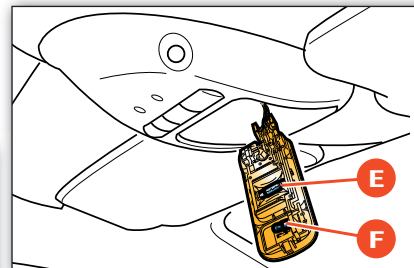
Replacing other light bulbs

Roof dome light

- Gently pry out with a screwdriver at point **C** to remove the dome light **D** from the roof.



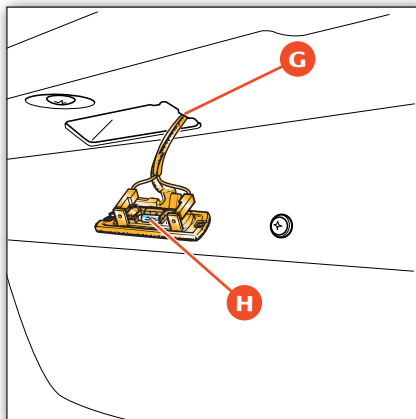
- Replace the light bulb involved, **E** or **F**.



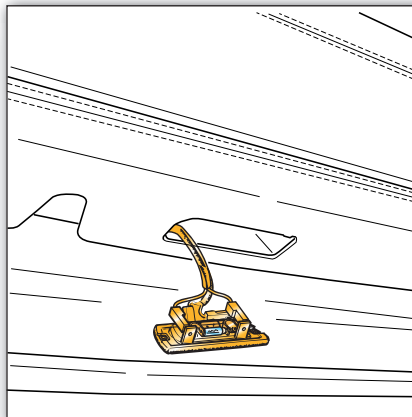
- Refit the dome light, taking care that the cables are not crushed, inserting it first from the connector side and then pushing on the opposite side.

Glove compartment light, luggage compartment light and underdoor light

- Gently pry out with a screwdriver at point **G** to slightly lift out the light.



Follow the same procedure for replacing the underdoor light bulb and the luggage compartment light.



- Remove the light from its seat.
- Remove the pressure-fitted bulb **H**.
- Replace the bulb.
- Refit the light, taking care that the cables are not crushed, inserting it first from the connector side and the pushing on the opposite side.

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Light bulbs (12 V, except for low and high beams)

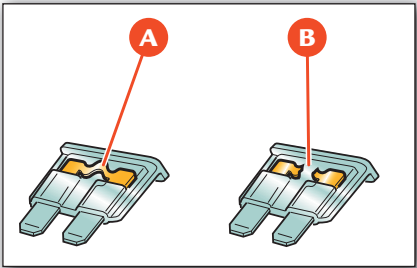
	Type	Power
Low beams and high beams	Xenon (gas discharge)	DAS
Front position lights	incandescent	H6W
Front direction indicator lights	incandescent	H21W
Side direction indicator lights	incandescent	T4W
Taillights	incandescent	R5W
License plate lights	incandescent	R5W
Auxiliary stop light	LED	
Rear fog lights	incandescent	P21W
Dome light	incandescent	10W
Spot light	incandescent	6W
Glove compartment light	incandescent	W5W
Courtesy light	incandescent	W5W
Luggage compartment light	incandescent	W5W
Reverse gear	incandescent	H6W

Replacing a fuse

When an electrical device is not working, check that the corresponding fuse is intact.

A - Fuse intact.

B - Fuse blown.

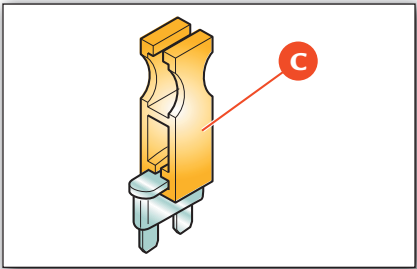


If the problem persists, contact your
AUTHORIZED FERRARI DEALER.

When replacing a fuse, always use
fuses of the same amperage (same
colors).

The toolkit contains spare fuses.

To remove fuses, use the tweezers **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

Location of the fuse and relay boxes

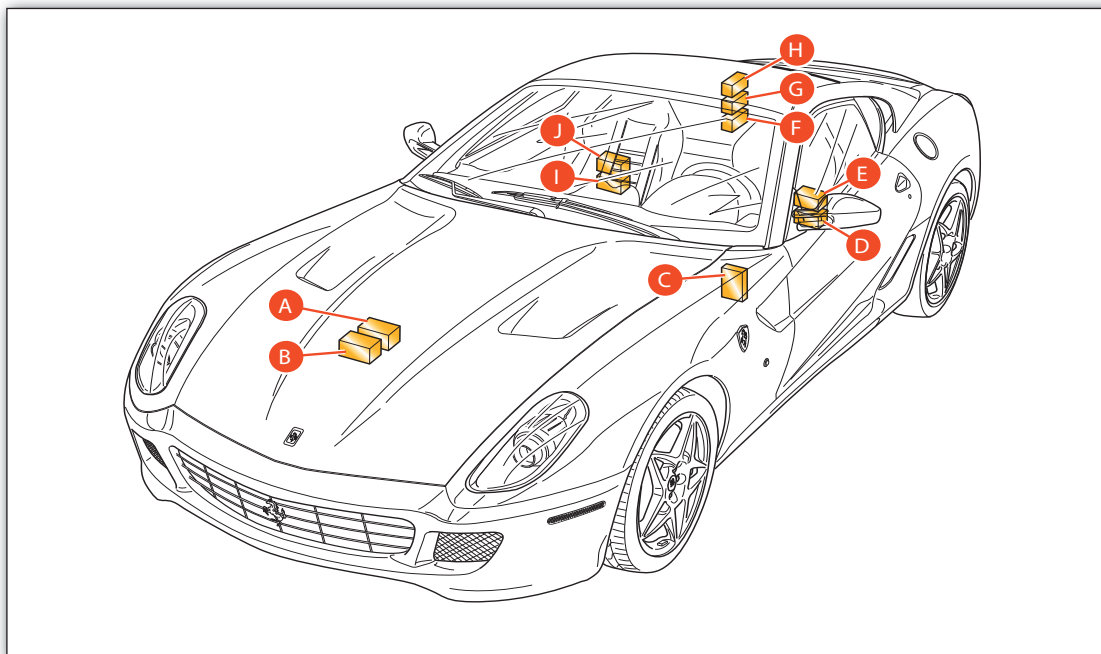
A, B - Fuses and relays in the engine compartment

C - Body Computer Fuses and relays

D, E - Fuses and relays in the passenger compartment, driver's side

F, G, H - Fuses and relays in the luggage compartment

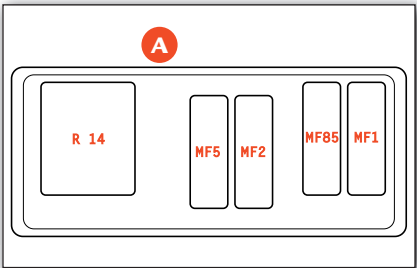
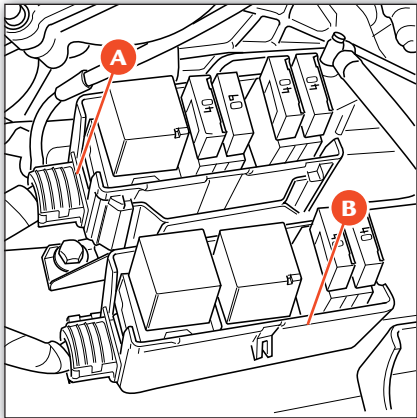
I, J - Fuses and relays in the passenger compartment, passenger's side



Fuses and relays in the engine compartment

To access these fuses you must:

- open the engine compartment (see “Engine Compartment – Opening” on page 69)
- 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

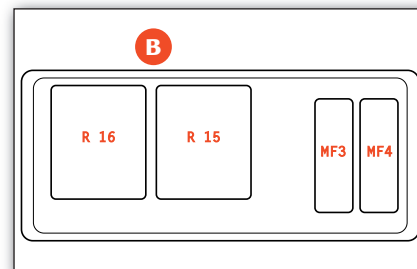
Ref.	Amp.	Use
MF5	40	+30 A.C. unit
MF2	60	+30 air pump (Link Box)
MF85	40	passenger compartment connected devices 2
MF1	40	+30 ABS (pump) (Link Box)

We recommend that you open only the boxes in which you need to work, to avoid damaging other components.

The box **B** contains the following fuses (**R**) and maxi-fuses (**MF**):

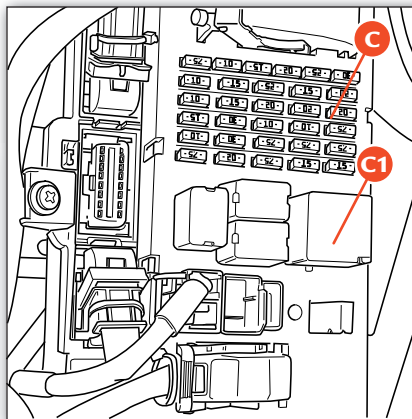
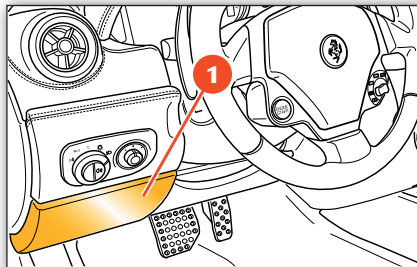
Ref.	Amp.	Use
R16	50	LH fans
R15	50	RH fans

Ref.	Amp.	Use
MF3	40	+30 RH fans (Link Box)
MF4	40	+30 LH fans (Link Box)



Body Computer fuses and relays

To access these fuses, remove the door **1** by undoing the two fastening screws.

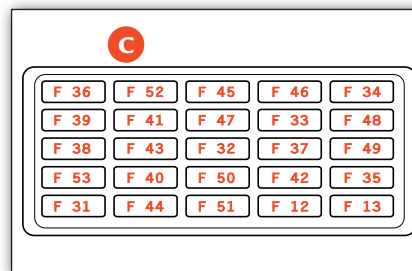


We recommend that you open only the boxes in which you need to work, to avoid damaging other components.

The box **C** contains the following fuses (**F**):

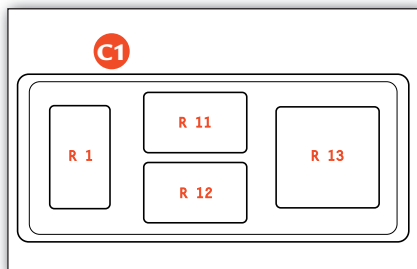
Ref.	Amp.	Use
F36	10	+30 glove compartment motor
F52	15	driver seat heating (INT/A connected device relay)
F45	25	(not used)
F46	15	(not used)
F34	20	(not used)
F39	10	+30 for NIM, NCL, diagnostic socket OBD, CSA, CAV, radio/NIT, telephone option
F41	15	(not used)
F47	20	(not used)
F33	20	(not used)
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		



The box **C1** contains the following relays (**R**):

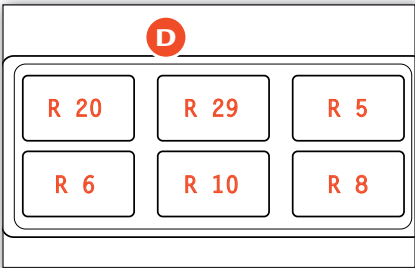
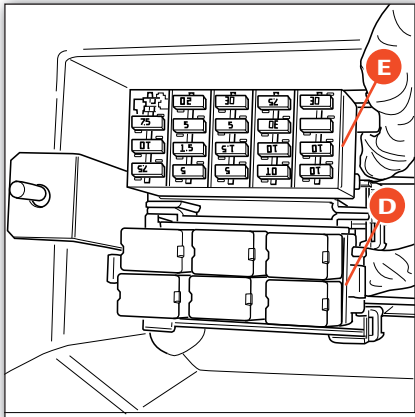
Ref.	Amp.	Use
R01	20	low beams
R11	30	heated rear window
R12	30	connected devices 1 (controlled by INT/A ignition switch)
R13	50	connected devices 2 (NBC-controlled) (option)



Fuses and relays in the passenger compartment (driver-side)

To access these fuses you must:

- lift the passenger compartment trim panel, behind the driver's seat.
- remove the box covers **D** and **E**.



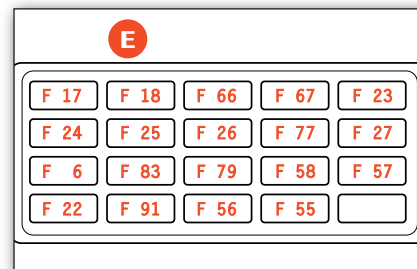
The box **D** contains the following relays (**R**):

Ref.	Amp.	Use
R8	20	horns
R10	20	left-hand injection
R6	20	high beams
R5	30	headlight washers
R29	20	glove compartment motor
R20	20	side marker

We recommend that you open only the boxes in which you need to work, to avoid damaging other components.

The box **E** contains the following fuses (**F**):

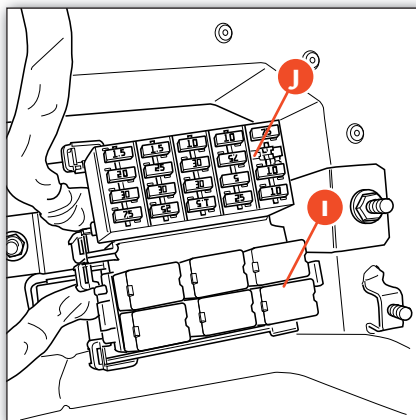
Ref.	Amp.	Use
F55	20	+30 steering column adjustment (only with basic seat version)
F56	30	+30 passenger seat adjustment
F91	7.5	+30 NAP (electronics)
F22	30	LH main injection relay
F57	7.5	+15 alternator, NVO, start button
F58	5	+30 NTP
F79	5	+30 NQS
F83	30	+30 NPC power supply
F6	25	+30 from ignition 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 low beam
F17	10	+30 LH low beam



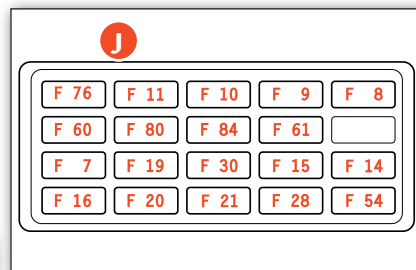
Fuses and relays in the passenger compartment (passenger-side)

To access these fuses you must:

- lift the passenger compartment trim panel, behind the driver's seat
- remove the box covers **J** and **I**.



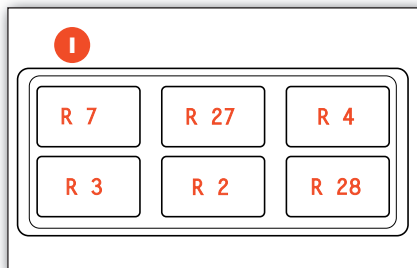
We recommend that you open only the boxes in which you need to work, to avoid damaging other components.



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 NPG, NPP door lock actuator
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

Ref.	Amp.	Use
F30	30	+30 driver seat adjustment (and steering column adjustment, only with comfort seats)
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)



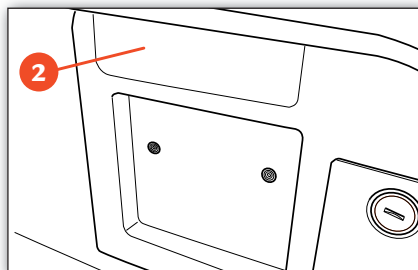
The box **I** contains the following relays (**R**):

Ref.	Amp.	Use
R7	30	starter motor
R27	20	devices cut-out upon ignition
R4	20	A.C. compressor
R3	20	immobilizer
R2	20	RH main injection relay
R28	20	ignition cut-off with battery charger

Fuses and relays in the luggage compartment

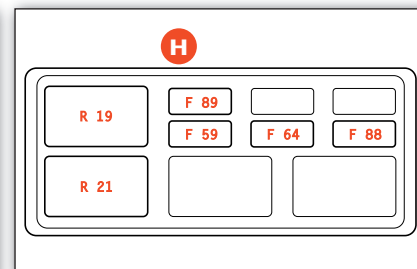
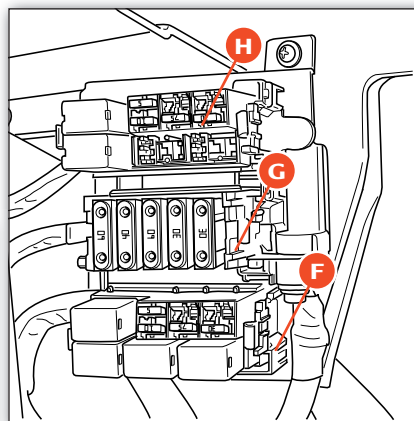
To access these fuses you must:

- 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**.

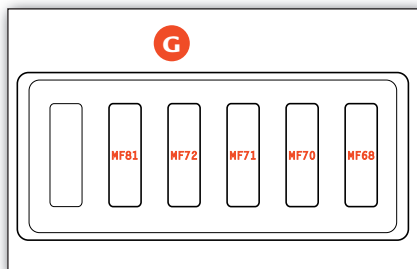
We recommend that you open only the boxes in which you need to work, to avoid damaging other components.



The box **H** contains the following fuses (**F**) and relays (**R**):

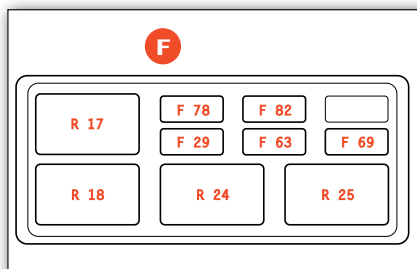
Ref.	Amp.	Use
R19	20	reverse gear
R21	20	fuel tank door

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	1st speed fuel pump, RH bank
R18	20	2nd speed fuel pump, RH bank
R24	20	1st speed fuel pump, LH bank
R25	20	2nd speed fuel pump, LH bank

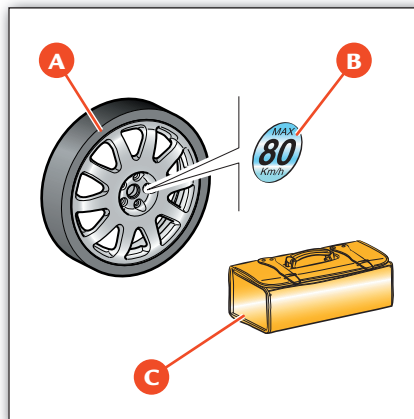
Ref.	Amp.	Use
F78	20	+30 LH fuel pumps
F82	5	+30 alternator sensing
F29	15	+30 battery charger
F63	20	+30 RH fuel pumps
F69	25	+30 NCR

Replacing a wheel

If one or more wheels need to be replaced, proceed as follows:

- Replace the stud bolts with damaged thread or cone.
- Carefully clean the stud bolts before fitting.
- Absolutely do not lubricate the contact surfaces between the stud bolt and the wheel rim, and between the wheel rim and the brake disk.

In order not to remove the anti-lock coating, do not clean the wheel rim cones with solvents or aggressive products.



Warning

- Keep the collapsible spare wheel in proper working order, checking it at regular intervals to ensure that the inflation pressure is 60,9 psi (4.2 bar).
- The spare wheel must only be used for short trips, in emergencies.
- When the spare wheel is fitted, never exceed the maximum speed of (50 mph – 80 km/h) and drive carefully, especially around bends and when overtaking, avoiding accelerating or braking suddenly.

- 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 to damages to the vehicle and injuries to the occupants.

Replacing a wheel

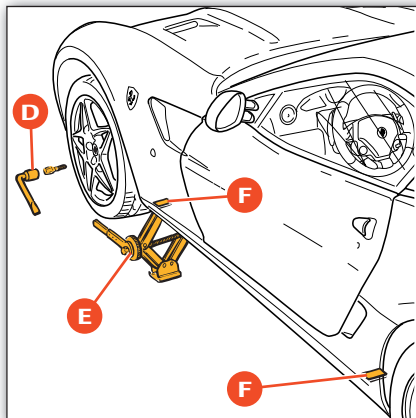
- Position the vehicle on an even surface, then engage 1st gear and lock the rear wheels by applying the handbrake.
- If necessary, turn on the hazard warning lights and place the hazard triangle at the prescribed distance.
- Take out the spare wheel and tools from their seat in the luggage compartment.
- Loosen the five wheel fastening stud bolts by approximately one turn, using the wrench supplied D.
- Place the base of the jack E on flat and firm ground, in position with one of the lifting points F underneath the vehicle floor.

Collapsible spare wheel (optional)

On request, the vehicle can come equipped with a kit containing:

- collapsible spare wheel A with space-saver tire; the label B indicates the max. speed permitted (50 mph – 80 km/h)
- additional toolkit bag C containing: jack and wrench to fasten the wheel stud bolts.

- 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.

The jack supplied must only be used for replacing the wheels.

- Completely unscrew the five stud bolts and remove the wheel.
- Fit the deflated collapsible spare wheel and screw in the five stud bolts tightening them snugly.



Inflate the collapsible spare wheel before lowering the car, as otherwise the rims may be damaged

- Inflate the collapsible spare wheel using the inflation kit (page 132).



The kit must be used in “tire inflation” mode.

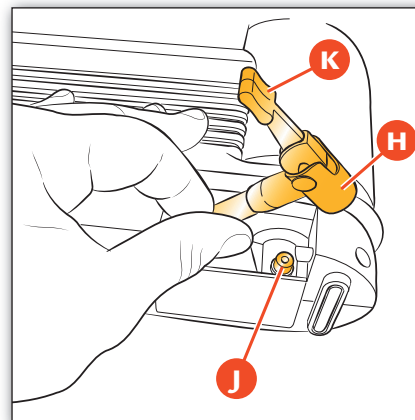
Use lever terminal H.

- Remove the terminal **H** from the union **J** on the cartridge and insert it in the wheel valve.
- Lower the lever **K** and start the compressor.
- Inflate to the indicated pressure (see page 26 - 27).



The spare wheel is not equipped with the tire pressure monitoring sensor (see label on spare wheel bag). After installation, it is not monitored by the system, but it does comply with International Regulation ECE R64/01.

Once fitted, we recommend you go to the nearest **AUTHORIZED FERRARI DEALER**.

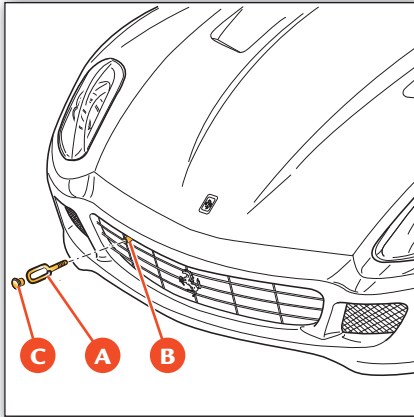


- Lower the vehicle and remove the jack.
 - Tighten the stud bolts completely, moving diagonally from one to the next.
- As soon as possible, tighten the stud bolts with the torque wrench to 73.8 lb ft (100 Nm).

Towing hook

When towing the vehicle, use only the attachment point provided for the towing hook **A** which must be inserted into its seat **B**.

- Take the towing hook **A** out of the toolkit bag.
- Remove the cap **C** from its seat **B**.
- Screw the hook tightly into its seat **B**.



- Position the gearshift lever in neutral (“N” position for vehicles with “F1” gearbox).



Always follow the applicable driving and traffic regulations when the vehicle is being towed.



Do not tow the vehicle using a hook attached to the suspension levers and wheel rims, but only onto the towing hook properly fitted in its seat.

Keep the ignition key in position **II** to allow the lights to work and to prevent locking of the steering wheel in the event of steering. Do not start the engine when towing the vehicle.

Keep in mind that the power steering and brake servo will not be working when the engine is off.

Fuel inertia switch

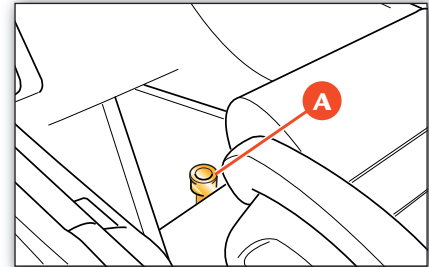
This safety switch **A** is located in the passenger compartment, on the underfloor, in front of the driver’s seat. In the event of a collision, it deactivates the fuel pump relays.

Activation of this switch is indicated by the illumination of the relative symbol on the multi-function display (see page 86) and by activation of the hazard warning lights.

When the switch activates, the doors are unlocked (if they were locked) and the central dome lights are turned on.

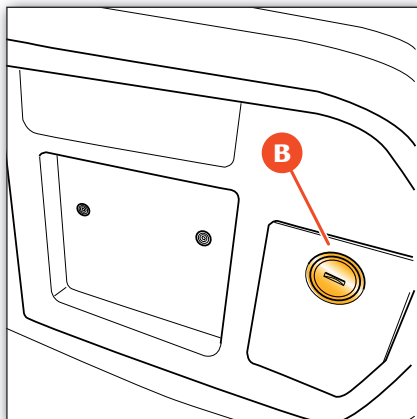


The system can be reactivated by pressing the button on top of the switch.



Battery master switch

It is located on the right-hand side of the luggage compartment. To access it, remove the small door **B**.

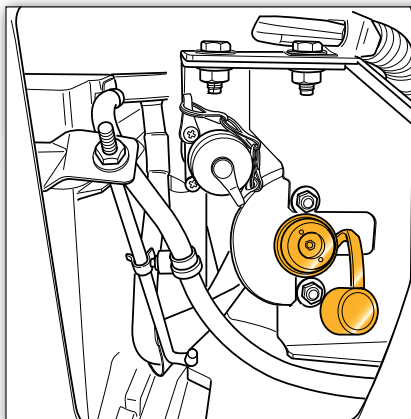


Use the battery master switch to cut off the power supply from the battery to the electrical system.

To disconnect the battery, move the switch anticlockwise 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 with 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.



This operation, when the battery is connected and fully charged, is done automatically whenever the doors are opened or closed. The windows must remain lowered until the recharged battery is reconnected. If the battery is discharged and the windows are fully up, only open the doors when strictly necessary and being extremely careful. Do not close them again until the windows can be lowered.

We recommend that you use the battery conditioner if the vehicle is not used for long periods of time.

Reconnecting the battery

Fit the TORX T40 wrench into the switch and turn it clockwise until it stops.

On every reconnection and before starting the engine, proceed as follows:

- Close both the 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.
- Set the clock (date and time on control panel).

- Close both the doors, raise the driver-side and passenger-side windows until they meet the upper weather strip. Check that the windows move down to the “upper limit” when the doors are opened.

⚠ Before starting the engine, wait at least 60 seconds with the ignition key at position **II**. This allows the electronic system that controls the motor-driven valves and the air conditioning ECU to perform their self-learning cycles

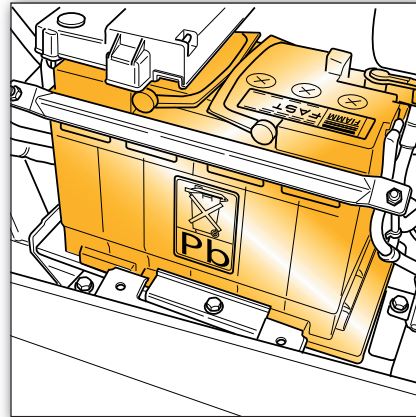
During this time, do not to activate any device.

The Motronic ECU’s self-learning cycle is successful when the intake air temperature is above 41 °F (5 °C).

After removing the battery from the vehicle and disconnecting it from the system through the battery master switch, when reconnecting make sure, before running the self-learning cycle, that the external air temperature is in the indicated range.

Checking the battery

The battery is positioned on the right-hand side of the luggage compartment.



The vehicle is equipped with a battery with sealed energy circuit, that is maintenance-free.

⚠ The battery does not need refilling with distilled water or sulphuric acid.

- Periodically check that the battery terminals and posts are completely clean and firmly secured.

- Visually inspect the outer casing for any cracks.
- If the battery runs overloaded, it will wear out quickly. Have the vehicle’s 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.

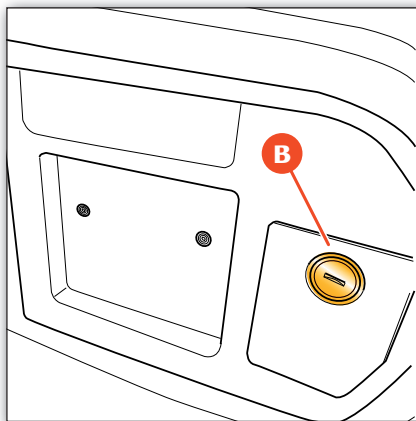
Battery conditioner

The vehicle is equipped with a conditioner for battery maintenance.

Using the battery conditioner contributes to extending the life of the battery.

This device is housed in a pocket inside the car cover bag, provided with the vehicle. The socket for connecting the battery conditioner is found on the right-hand side of the luggage compartment, behind the panel **B**.

⚠ Arrange the battery conditioner in a well visible position, away from heat sources and children's reach.



After connecting the battery conditioner to the vehicle socket, run the connection cable underneath the luggage compartment lid, in the external/rear corner

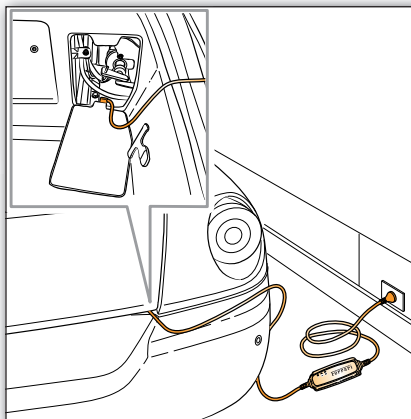
Do not let the connection cable run out of the vehicle, in positions other than those indicated, to avoid damaging the sealing gaskets and/or the cable itself.

If you do not plan on using the vehicle for more than a week, we advise you to connect the battery conditioner in order to preserve full battery efficiency.



The vehicle cannot be started (ignition disabled) as long as the battery conditioner is connected to the socket in the vehicle.

Additional and extensive technical information on the use of the device can be found in the manual provided inside the pocket of the car cover bag.



Exhaust system overheating alarm devices

In the event of irregular engine operation and consequently high exhaust system temperatures, the relative warning light will be displayed on the TFT display together with a warning message. The warning message has two different alarm levels: high temperatures or extreme temperatures.

The warning light display is controlled by the thermoresistor, through the engine ECU.



Incorrect use of the vehicle could lead to illumination of the TFT warning light.



If the temperature is high (light flashing): The driver must decelerate immediately to allow the temperature of the exhaust system to decrease.



If the temperature is extreme (light on steady):

The temperature in the catalytic converters has reached a dangerous level and could damage them. If you continue to drive, the engine ECU will cut off the fuel supply to the injectors.

The driver must stop the vehicle and turn off the engine so the exhaust system can cool down. After about five minutes, restart the engine and drive normally.

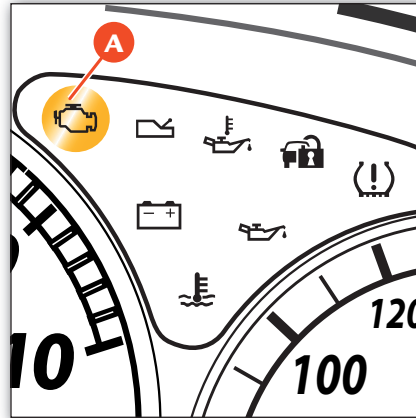
If the OBD warning light illuminates (see page 157) at the same time, it is necessary to contact an **AUTHORIZED FERRARI DEALER** to check the control unit's memory for errors.

FERRARI is not liable for any damage to property or personal injury arising from failure to comply with the warnings stated above.

Engine malfunction alarm devices

If the “engine control system failure” **A** warning light flashes or is permanently lit when the engine is running, the engine or 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 warning light “Engine control system failure” illuminates, engine performance may be considerably reduced.

Drive carefully, avoiding sudden accelerations and high speeds.

Contact an **AUTHORIZED FERRARI DEALER** immediately.

Replacing the brake pads and brake discs

Brake pads

The brake pads are equipped with a wear sensor, connected to the brake warning light. When this warning light comes on or, whenever braking no longer appears to be regular, the pad thickness and the condition of the braking surfaces must be checked.

The minimum thickness allowed for the pads is 0.12 in./3 mm (thickness of the friction material only).

Pad replacement

The brake failure warning light will illuminate to indicate excessive wear of the brake pads, which must be replaced immediately.



In order to help ensure the quality of the components and accurate installation, we recommend that you have the procedure performed by your **AUTHORIZED FERRARI DEALER**.

To help ensure proper breaking-in of the pads following replacement, avoid sudden and sharp braking until the new pads have been run-in, after about 186 mi (300 km).

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Table of Notes

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Warranty and Service 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 and Service Book

The vehicle comes equipped with a “Warranty and Service Book”.

This contains the vehicle’s warranty validity conditions.



The Warranty and Service Book also contains special blank spaces where the 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 defects, caused by negligence or lack of maintenance, and consequently to avoid hazardous situations.

All repair work on any component of the safety system must be performed by the AUTHORIZED FERRARI DEALER.

Maintenance schedule

All the maintenance and checks indicated in the “Warranty and Service Book” must be performed at an AUTHORIZED FERRARI DEALER at the prescribed intervals.

It is however advisable to immediately report to your AUTHORIZED FERRARI DEALER any small fault which may occur during use of the vehicle (e.g., small fluid leaks) and not to wait until the next service is due to correct the problem.

It is required to have the periodic maintenance services performed at least once a year, even if the specified mileage limit has not been reached (see “Maintenance Schedule” in the “Warranty and Service Book”).

Chassis and bodywork maintenance

The vehicle chassis is entirely made of aluminium, and has been 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 ensures that the commercial value of the vehicle is preserved and the safety standards are complied with.

If the chassis is damaged as a result of an accident, FERRARI recommends that you contact your AUTHORIZED FERRARI DEALER

We recommend that you use original genuine FERRARI parts, which can be obtained from your AUTHORIZED FERRARI DEALERS.

The chassis, under standard conditions of use, requires no maintenance; it is however advisable to contact your AUTHORIZED FERRARI DEALERS, at the intervals indicated in the “Warranty and Service Book” in order to have it checked.

Level checks

The level checks must be performed at the intervals indicated in the “Warranty and Service 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 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:

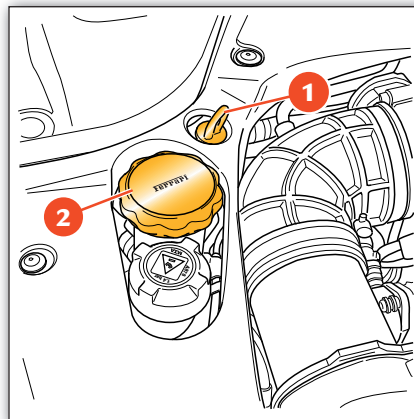
A Run the engine at idle until reaching an engine oil temperature ranging from 185 to 194°F (85 - 90°C).

B Run the engine at 4500 RPM for 1 minute.

C Run the engine at idle for 2 minutes, then (without turning the engine off) check the oil level.

 If the oil level is not checked within 3 minutes (instead of 2 minutes, as indicated above), repeat steps B and C before checking the level.

D Remove the dipstick **1** from the sump and check the level: this must be between the MIN and MAX notches on the dipstick.



Difference between **MAX** and **MIN** = 0.4 US Gallon (1.5 liters).

E If the oil level is too low, unscrew the cap **2** on the tank and top up with the recommended oil. Keep the oil level between the **MIN** and **MAX** notches. Screw the 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 4500 RPM for 1 minute.

G Run the engine at idle for 2 minutes, then (without turning the engine off) check the oil level.

 As the first check was performed within a time range of 2-3 minutes, the second oil check must also be performed within the same time range.

For instance, if the first check was performed after 2 min. and 30 sec., the second check must also be performed after approximately 2 min. and 30 sec..

H Remove the dipstick **1** from the sump and check the level: this must be between the **MIN** and **MAX** notches on the dipstick. Screw the cap **2** back on tightly.

 Top up the oil with care to avoid spilling it from the filler neck.

Gearbox and F1 gearbox system oil

We recommend that you have the oil level checked by your AUTHORIZED FERRARI DEALER or by skilled staff.

Coolant

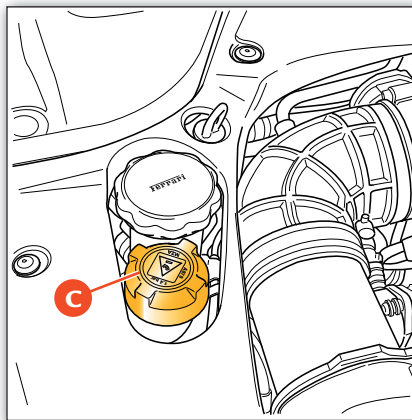


This procedure must always be performed when the engine is cold. Never remove the cap C from the expansion tank when the engine is running or hot.

- 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, fill it up with the recommended fluid.

If frequent refills are required after short trips, have the system checked by your AUTHORIZED FERRARI DEALER.

- Screw the cap **C** back on tightly.



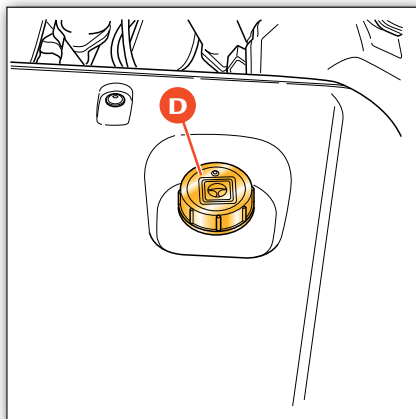
Filling the circuit

To fill the circuit (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 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.
- Turn on 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.
- Run the engine until it reaches 3000 RPM, wait one minute and then let it idle.
- Run the engine until it reaches 3000 RPM, turn off the heater and, after

- one minute, bring it back to idle.
- Stop the engine and let it cool down.
- Check the level once again and, if necessary, fill 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 miles (15 km), and with the vehicle parked on 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.

Fill up if necessary with the recommended oil up to the **MAX** level.

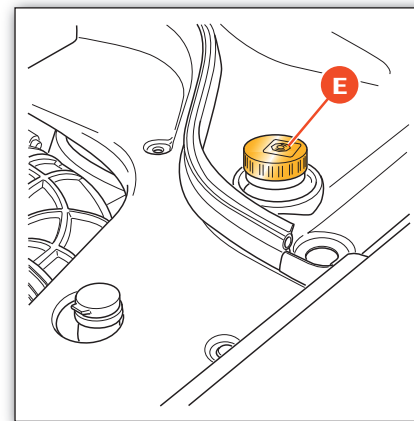
Screw the cap **D** back on tightly.

 Never dispose of used fluid in the environment.

Brake/clutch oil

- Check that the fluid in the tank is near the **MAX** level.
- If the level is low, unscrew the cap **E** and fill up with the recommended oil, taken from a sealed container.

 Never dispose of used fluid in the environment.



The oil contained in the brake and clutch systems, in addition to damaging plastic, rubber and painted parts, 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 of children's reach!

On vehicles equipped with "F1" gearbox, the tank supplies the braking system only.

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.

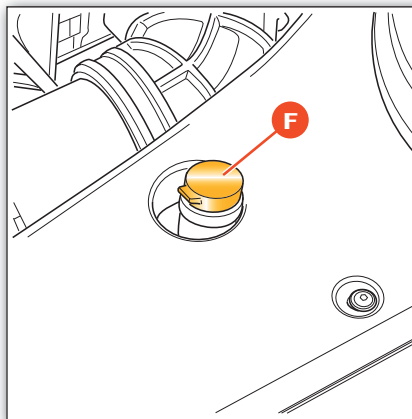
Do not use fluids other than those already contained in the system for refills.

- When the system has been refilled, screw the cap back on.

Windshield washer fluid

The tank for the windshield wipers and washer fluid 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 filling manifold.
- Close the cap.



Wheels and tires

To help ensure performance, endurance and the best tire adjustment on the wheel, it is important to comply with the following instructions for the first 124–186 mi. (200–300 km) with new tires:

- avoid sudden accelerations
- avoid sharp braking and steering
- drive at moderate speed on straight roads and on curves.

How to use the tires

This is a high performance vehicle. The wear of the tires will depend significantly on your driving habits and patterns. The tires must be constantly kept in good condition help ensure safe driving. Check regularly for wear and damage.

The inflation pressure must correspond to the specified values and must be checked only when the tires are cold. Tire pressure increases as the tire temperature progressively increases.

Never reduce the pressure if the tires are hot.

Insufficient tire pressure can lead to overheating, damage and even destruction of the tires.



Inflating the tires to a pressure differing from that prescribed (see table on page 26 - 27) will render the monitoring system inefficient.



Periodically check the tire pressure.

Sudden impacts against sidewalks, holes in the road and other obstacles of various types, as well as long trips on rough roads, can cause damage to the tires that may not always be visible.

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 a qualified technician 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.



Wheel with REVERSE RIM (*HGTE package*).

The tire must be fitted and removed from the inner part of the rim only to avoid damaging the rim and pressure sensor!

This operation must be performed by skilled staff.

Contact your AUTHORIZED FERRARI DEALER.

Your AUTHORIZED FERRARI DEALER have the necessary equipment for tire replacement.

Have the tires replaced by your AUTHORIZED FERRARI DEALER, who has the required tools and equipment in order to avoid that improper or careless operations damage the sensor inside the wheel.

Your AUTHORIZED FERRARI DEALER can certify whether aged tires are suitable for use. In any case, tires that have remained on a vehicle for more than 3 years must be checked by an AUTHORIZED FERRARI DEALER.



We recommend that you replace the tires when worn to a depth of less than 0.067 in (1.7 mm), but in no case should they be kept on the vehicle for more than four years, even if sufficient tire tread remains. 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 to indicate the direction in which they must rotate or which side is the outer side. In the case of replacement, the best performance levels can only be provided 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 0.067 in (1.7 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 and Service Book”, have your AUTHORIZED FERRARI DEALER check the wheel alignment.

Maintenance of the seat belts and pretensioners

- Periodically check that the screws on the anchoring points are tight and that the seat belt is in proper condition and slide smoothly.
- The seat belt must be kept clean; the presence of any dirt could jeopardize the efficiency of the seat belt retractor.
- 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.
- Do not let the seat belt retractors get wet: they will function properly only 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 and Service Book”.



All work on any part of the safety system components may only and exclusively be performed by an AUTHORIZED FERRARI DEALER.

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 the vehicle long life.

Below 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 only wets the vehicle,

without removing dirt or mud completely can damage the bodywork.

- 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 substances to clean the windows. Using aggressive substances may damage some parts of the body.

- Do not wash the vehicle in direct sunlight or when the bodywork is still warm: ensure that the jet of water does not hit the paintwork too hard. Wash the vehicle with a sponge and a solution of mild soap and water. Rinse the vehicle again with a jet of water and dry it with a piece of 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 of the paintwork, polish it once or twice a year with the products recommended by FERRARI.

- Any areas that are cracked or chipped as a result of stones, scratches or parking maneuvers, 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.

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.

Cleaning and care of the leather upholstery

As indicated in the “MAINTENANCE SCHEDULE” (see “Warranty and Service 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 the FERRARI SPARE PARTS DEPARTMENT, 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.

The following products must be avoided when cleaning the leather: harsh detergents, turpentine, liquid stain removers, benzene, solvents and domestic cleaning products. All of these products damage the natural material.

If the vehicle is stored for long periods

If the vehicle is not used for long periods of time, it is advisable to take certain precautions:

- 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 handbrake

- bring the tire pressure to 43.5 psi (3.0 bar) and periodically change the tire resting point on the ground
- disconnect the battery from the system

If you do not wish to disconnect the battery in order to keep certain devices functioning, such as the alarm system, etc., the battery must be recharged at least once a month. If the vehicle is not used for long periods of time with the battery disconnected, the battery must be recharged at least every three months.

- protect the vehicle with a breathable fabric cover, avoiding materials that would prevent any dampness 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.

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Table of Notes

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Extreme caution required

	Subject	Page ref.
Because of the high power generated by the engine, we recommend that the vehicle only be used by experienced drivers.	Introduction	Page 4
The vehicle is equipped with emission control and monitoring systems, which must always function properly.	Introduction	Page 7
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 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.	Introduction	Page 7
	General	
Make sure you record the code numbers in the space provided in the "WARRANTY AND SERVICE BOOK".	Vehicle keys	Page 12
The code numbers on the CODE CARD must always be kept in a safe and protected place, not accessible to others.	Vehicle keys - Key codes	Page 12
We remind you that the emergency start procedure can only be performed using the electronic code found on the CODE CARD.	Vehicle keys - Key codes	Page 12
Each key supplied has its own specific code, which must be stored in the memory of the system ECU.	The Ferrari CODE system	Page 14
Contact your AUTHORIZED FERRARI DEALER immediately to have all the keys stored in the system memory.	The Ferrari CODE system	Page 14
There is risk of explosion if the battery is replaced with an incorrect type. Dispose of used batteries according to the instructions.	Replacing radio operated control battery	Page 14

Extreme caution required	Subject	Page ref.
Max. speed 149 mph - 240 km/h.	Wheels and Tires	Page 27
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.	Wheels and Tires	Page 28
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.	Wheels and Tires	Page 28
Observing the recommended wheel alignment values is essential in order to obtain the best performance and the longest life of these tires. More information on these tires and on the relative pressure monitoring system can be found in the “Carrozzeria Scaglietti” Owner’s Manual.	Wheels and Tires	Page 29
If you are going to use standard tires on a vehicle that was originally equipped with “Run Flat” tires, you must contact your AUTHORIZED FERRARI DEALER to have the dashboard reprogrammed and to prevent viewing warning messages on the TFT display.	Wheels and Tires	Page 29
	Safety	
FERRARI urges you to use the seat belts correctly fastened and adjusted at all times!	Seat belts	Page 34
Correct use of the seat belts can help reduce the risk of serious injury in the event of an accident.	Seat belts	Page 34
All passengers must wear their seat belts!	Seat belts	Page 34
Do not pass the seat belts over sharp edges. They could tear.	Seat belts	Page 34
Do not attach or pin anything onto the seat belts. This could reduce their initial strength and cause them to tear in the event of a crash.	Seat belts	Page 34

Extreme caution required	Subject	Page ref.
Do not bring cutting edges in contact with a seat belt. They may get damaged and consequently break in the event of a collision. If a seat belt has been brought in contact with a cutting edge, or has been used to pin something on it, have it immediately replaced at your AUTHORIZED FERRARI DEALER.	Seat belts	Page 34
Do not allow children to be held on a passenger's lap using only one seat belt for both of them. In the event of a crash, the weight of the adult would crush the child against the seat belt. This can result in serious injuries or death for the child.	Seat belts Fastening the seat belts	Page 36
After activation, the pretensioner no longer functions and cannot be repaired, under any circumstances. Contact your AUTHORIZED FERRARI DEALER for replacement.	Seat belts Pretensioners	Page 37
All work on any part of the safety system components must be performed only by an AUTHORIZED FERRARI DEALER.	Seat belts Pretensioners	Page 37
Never drive with a child in a rearward-facing child seat in the front seat if the "PASSENGER AIRBAG OFF" warning light is not illuminated. Airbag deployment can cause serious injuries or death to a child in a rearward-facing child seat.	Child safety	Page 37
Established legislation in some countries already provides that children under 12 years of age may not travel in the front passenger seat.	Child safety	Page 37
Child seats may only be installed with the seat fully lowered and pushed backward.	Child safety	Page 37
Incorrect fastening of a child restraint system increases the risk of injury to the child in the event of a collision.	Child safety	Page 37
Always deactivate this feature prior to using the seat belt for normal use. Having the retractor locked can be dangerous when the seat belt is used for directly restraining a passenger.	Child safety	Page 38
Installing a child seat with the key in position II can result in induced injuries.	Child safety	Page 38

Extreme caution required	Subject	Page ref.
Never drive with a child in a rearward-facing child seat in the front seat if the "PASSENGER AIRBAG OFF" warning light is not illuminated. Airbag deployment can cause serious injuries or death to a child in a rearward-facing child seat.	Child safety	Page 39
Never carry a child in a adult's lap. In the event of a crash, the weight of the adult could crush the child against the seat belt (or the dashboard). This could result in serious injuries or death for the child.	Child safety	Page 39
This is a high-performance vehicle. You are strongly urged not to carry children in this vehicle, since they can also be injured by hard accelerations.	Child safety	Page 39
Always drive slowly and carefully when carrying a child. Hard accelerations due to sport-style driving can be dangerous for children, even if no crash occurs.	Child safety	Page 39
Children must always be seated in a child restraint system specifically designed for their size, and must be properly restrained.	Child safety	Page 40
Unrestrained occupants, including children, can be propelled against the dashboard or the windshield by hard braking and by crash forces. This can result in serious injuries or death.	Child safety	Page 40
Do not tamper with seat belts or child restraint systems.	Child safety	Page 40
The ignition key must always be turned to position 0 when installing a child seat on the front passenger seat.	Child safety	Page 40
The advanced airbag system of your vehicle is not designed to protect adults with disability that require deactivation of the passenger's or driver's airbag.	Child safety Transport of person with disability	Page 40
If you or another occupant is an adult with a medical condition that requires airbag deactivation, please contact your AUTHORIZED FERRARI DEALER.	Child safety Transport of person with disability	Page 40

Extreme caution required	Subject	Page ref.
As long as the airbag is activated, persons with disability are advised not to travel in the vehicle in order to avoid the risk of serious injuries or death, even in minor crashes.	Child safety Transport of person with disability	Page 40
The airbag is not a substitute for the seat belts. Correct use of the seat belts, in combination with the airbag, will offer protection for the driver and passenger in the front seats in the event of a head-on collision.	Airbag	Page 41
Front airbags cannot offer protection in side crashes, certain front-angular crashes, roll over events or in secondary impacts (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.	Airbag	Page 41
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 the occupants in low severity frontal crashes.	Airbag	Page 41
When the ignition key is turned to position II, the warning light C illuminates. If no malfunctioning 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.	Airbag Airbag system components	Page 41
The driver and passenger are both advised not to travel handling objects (e.g., beverage cans or bottles, pipes, etc.) that could cause injury in the case of airbag deployment.	Airbag Operation	Page 42
Always drive with your hands on the rim of the steering wheel so that, in case of activation, the airbag can deploy without obstruction. Driving with your hands inside the steering wheel rim or on the airbag cover increases the risk of injury for your wrists and arms.	Airbag Operation	Page 42
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 help ensure protection in all types of collision.	Airbag Operation	Page 42

Extreme caution required

	Subject	Page ref.
Always keep the backrest of your seat in the upright position and sit with your back properly resting against it.	Airbag Operation	Page 42
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. Thus, even with the vehicle stationary, do not put children in the front seat. In addition, remember that if the ignition key is in position 0, none of the safety devices (airbags or pretensioners) will be activated in the event of a collision. Failure of the airbags to inflate in these circumstances is not indicative of a system malfunction.	Airbag Operation	Page 42
Therefore, even with the vehicle stationary, do not allow children to sit on the front seat.	Airbag Operation	Page 42
Never place an object over or near the airbag covers. In the event that the airbags are deployed, these objects would be projected into 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.	Airbag Operation	Page 43
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 your AUTHORIZED FERRARI DEALER. Activation of a damaged module could cause serious or fatal injuries.	Airbag Operation	Page 43
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.	Airbag Operation	Page 43
The airbag modules must be replaced at the intervals indicated in the “Warranty and Service Book” EVEN if the vehicle was NOT involved in a collision.	Airbag Operation	Page 43
The airbags are not a substitute for the seat belts. Correct use of the seat belts, with the supplementary action of the side bags, will provide protection in the event of a lateral collision.	Side Airbag	Page 44

Extreme caution required

	Subject	Page ref.
The side bag fitted on the vehicle was not designed to reduce the risk of being hurled out in the event of vehicle roll-overs.	Side Airbag Side bag system components	Page 44
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.	Side Airbag Side bag system components	Page 44
Never travel with your head leaning out of the window, as your head and neck would be in the airbag activation area. In the event of a side collision, this position would increase the risk of being hurled out of the vehicle and would compromise the protective action of the side bags.	Side Airbag Operation	Page 45
Never place an object over or near the airbag covers. In the event that the airbags are deployed, these objects would be projected into 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.	Side Airbag Operation	Page 45
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 your AUTHORIZED FERRARI DEALER . Activation of a damaged module could cause serious or fatal injuries.	Side Airbag Operation	Page 45
Following activation, the airbag components can no longer perform their protective action; therefore, they cannot be repaired and must be replaced. After activation of a side bag, have it replaced by your AUTHORIZED FERRARI DEALER .	Side Airbag Operation	Page 46
The airbag modules must be replaced at the intervals indicated in the “Warranty and Service Book” EVEN if the vehicle was NOT involved in a collision.	Side Airbag Operation	Page 46
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.	Advanced Airbag System	Page 47

Extreme caution required

	Subject	Page ref.
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, seriously injuring or killing the child.	Advanced Airbag System	Page 47
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.	Advanced Airbag System	Page 49
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.	Advanced Airbag System	Page 49
Front airbags cannot offer protection in side crashes, certain front-angular crashes, roll over events or in secondary impacts (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.	Advanced Airbag System	Page 49
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.	Advanced Airbag System	Page 50
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.	Advanced Airbag System	Page 50
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.	Advanced Airbag System	Page 50

Extreme caution required

	Subject	Page ref.
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.	Advanced Airbag System	Page 50
Adults should not travel in the front passenger seat if the “PASSENGER AIRBAG OFF” warning light is illuminated.	Occupant Classification System	Page 51
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.	Occupant Classification System	Page 51
Installing a child seat with the ignition key in position II can result in induced injuries.	Occupant Classification System	Page 51
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.	Occupant Classification System	Page 53
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 death.	Occupant Classification System	Page 53
The front passenger’s seat and its control unit are part of the advanced airbag system. Never have your seat tampered with, as this can result in a system malfunction, which could cause serious injuries or death.	Occupant Classification System	Page 53
Repairs on the front passenger seat must only be performed by trained technicians at an AUTHORIZED FERRARI DEALER.	Occupant Classification System	Page 53
Not following the above instructions can result in serious injuries or death in the event of a crash.	Advanced Airbag System	Page 53
The ABS system features remain unaltered as long as the speed limit for the tire side grip is not exceeded. When this limit is exceeded, vehicle skidding cannot be avoided.	ABS	Page 54

Extreme caution required

Extreme caution required	Subject	Page ref.
The ABS system does NOT exempt the driver from driving carefully and responsibly at all times.	ABS	Page 54
RACE mode must be used only on race tracks.	CST	Page 55
The system 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 is UNABLE to warn the driver of sudden damage to the tires caused by external objects/agents (e.g., nails, stones, etc.).	Tire pressure and temperature monitoring system	Page 56
Before calibrating the system, make sure that the tire pressures correspond to the indicated pressure values (see page 24-25). If this is not the case, the system may issue wrong low pressure indications.	Tire pressure and temperature monitoring system System not calibrated	Page 59
	About your vehicle	
Always check that the doors are properly closed to prevent them from opening while driving.	Door opening and closing Door locking and opening from the inside	Page 68
Always check that the lid is properly closed to prevent it from opening while driving.	Engine compartment lid Closing	Page 69
Always turn off the engine during refueling. Take extreme care when removing the cap. Do not smoke or use open flames during refueling. The following can be harmful for your health: - fuel coming into contact with your skin - inhaling fuel vapors.	Fuel tank door and cap opening and closing	Page 71
Improper use of the power windows can be dangerous. Before use, always check that people and objects are at a safe distance. Pay particular attention during the automatic operation of the driver-side power window. To protect the passengers remaining in the car against accidental operation of the power windows, always remove the key from the ignition.	Power window opening and closing	Page 73

Extreme caution required	Subject	Page ref.
If the high beam control is on, the high beams will turn on every time the external lights are activated automatically. We recommend therefore that you turn them off every time the twilight sensor deactivates the external lights.	Lighting Automatic activation and deactivation	Page 75
In case of fog during the day, the position lights and low beams will not activate automatically. The driver must always be ready to turn on the lights manually, and also the rear fog lights if necessary.	Lighting Automatic activation and deactivation	Page 75
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 country 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.	Lighting Automatic activation and deactivation	Page 75
RACE mode must be used only on race tracks.	"TFT" display	Page 81
Stop the vehicle avoiding hard braking. Do not drive further and contact an AUTHORIZED FERRARI DEALER immediately.	Instruments and gauges TFT display warning lights	Page 88
The vehicle can still be driven at low speed (max. 25 mph – 40 km/h), to leave the road.	Instruments and gauges TFT display warning lights	Page 88
In this condition, do not activate "SPORT" or "RACE" mode.	Instruments and gauges TFT display warning lights	Page 89
Stop the vehicle avoiding hard braking. Do not drive further; check the fluid level in the tank and immediately contact your AUTHORIZED FERRARI DEALER.	Instruments and gauges Warning lights	Page 91
Stop the vehicle avoiding hard braking. Do not drive further and immediately contact your AUTHORIZED FERRARI DEALER.	Instruments and gauges Warning lights	Page 91
The vehicle can still be driven at low speed (max. 25 mph – 40 km/h), to leave the road.	Instruments and gauges Warning lights	Page 91
Danger of rear wheels locking and risk of spinning. Stop the vehicle avoiding hard braking. Do not drive further and immediately contact your AUTHORIZED FERRARI DEALER.	Instruments and gauges Warning lights	Page 91

Extreme caution required	Subject	Page ref.
The vehicle can still be driven at low speed (max. 25 mph – 40 km/h), to leave the road.	Instruments and gauges Warning lights	Page 91
RACE mode must be used only on race tracks.	Instruments and gauges Warning lights	Page 96
Do not operate 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 block the view.	Windshield washer/wipers and headlight washer Windshield washer	Page 98
Before cleaning the front windshield (for example in service stations) make sure the rain sensor is deactivated or that the key is at position 0. The rain sensor must be deactivated also 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.	Windshield washer/wipers and headlight washer Rain sensor	Page 99
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-view mirror adjustment (center and sides).	Driving the vehicle	Page 100
Use unleaded fuel only! Using leaded fuel would permanently damage the catalytic converters.	Driving the vehicle Recommended lubricants and fluids	Page 100
If the failure warning light continues flashing without going off, deactivate the system and restart it. If the failure persists, contact an AUTHORIZED FERRARI DEALER to have the necessary checks performed.	Driving the vehicle Starting and driving the vehicle (F1) System starting	Page 101

Extreme caution required	Subject	Page ref.
If a horizontal dash appears on the display, there is a system failure.	Driving the vehicle Starting and driving the vehicle (F1) Operation with the engine off	Page 101
Hold button R down, until the letter R appears on the display.	Driving the vehicle Starting and driving the vehicle (F1) Operation with the engine off	Page 102
Hold the brake pedal down while starting the engine.	Driving the vehicle Starting and warming up the engine (F1)	Page 102
Use 1st gear for parking or for starting uphill.	Driving the vehicle Starting the vehicle (F1)	Page 103
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.	Driving the vehicle Starting the vehicle (F1)	Page 104
RACE mode must be used only on race tracks.	F1 - SUPERFAST gearshifting	Page 105
Do not start the vehicle before the display has turned off. Never leave the vehicle with the gearshift in N. Engage a gear (1st or R), check that the display is not flashing and always apply the handbrake. Never leave the vehicle with the engine running.	Driving the vehicle Turning off the engine and the system (F1)	Page 106
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.	Driving the vehicle Turning off the engine and the system (F1)	Page 106
Use 1st gear for parking or for starting uphill.	Driving the vehicle Starting the vehicle (CM) When the engine has started	Page 108

Extreme caution required

	Subject	Page ref.
Continuing to drive when a red warning light is on could cause serious damage to the vehicle and affect its operation and performance. After sports-style driving, let the engine idle for several minutes before turning it off, in order to stabilize the temperatures.	Driving the vehicle While driving (CM)	Page 109
Do not coast downhill with the engine off, as the servo brake will no longer function due to the vacuum decrease and thus, after a less braking attempts, the system will become inefficient.	Driving the vehicle While driving (CM)	Page 109
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. Do not leave the engine running with the vehicle unattended.	Driving the vehicle Parking	Page 109
To help ensure the system proper functioning, the sensors positioned on the bumper must be kept clean (remove any mud, dirt, snow or ice).	Driving the vehicle Parking maneuver	Page 110
However, the driver remains fully responsible for parking maneuvers and in other potentially dangerous situations. The system has been designed only as a supplementary aid during parking maneuvers, since it allows the driver to detect obstacles outside his 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.	Driving the vehicle Parking maneuver	Page 110
The driver is fully responsible for parking and other potentially dangerous maneuvers. During these maneuvers, always make sure there are no people (especially children) or animals in the maneuvering area. The parking sensors must be considered an aid for the driver who, in any case, must never take less care during potentially dangerous maneuvers, even if they are performed at low speeds.	Driving the vehicle Parking maneuver Failure warnings	Page 111

Extreme caution required

	Subject	Page ref.
Drunk driving, or driving under the influence of drugs, alcohol or certain medicines is extremely dangerous for 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 the seat belt and the child seat, if any. Deactivate the passenger's airbag (where possible) if a child seat is fitted on the front seat. Do not travel with objects lying around 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 any 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.	Driving the vehicle Safe driving When travelling	Page 112
If the road is wet, reduce your speed to avoid "aquaplaning" phenomena, during which the tire no longer touches the road surface. This is due to the fact that, when the road is very wet and the vehicle speed is high, the side channels of the tire tread, because of their particular shape or insufficient depth, are not capable of removing all of the water channelled, so that a layer of water exists between the road surface and the tire. The fluid pressure generated is so high as to support the vehicle's weight, making it impossible for the driver to control the vehicle.	Driving the vehicle Safe driving When travelling	Page 113
On stretches where visibility is good, turn off the rear fog lights, as they are very bright and may be annoying for the occupants of the vehicles behind you.	Driving the vehicle Safe driving Driving in fog	Page 114
RACE mode must be used only on race tracks.	Ignition switch Position II - Start	Page 116
Never remove the key when the vehicle is moving! The steering wheel will lock automatically with the first turn of the steering wheel. Always remove the key from the ignition when you get out of the vehicle! Never leave children unattended in the vehicle.	Ignition switch Position II - Start	Page 116
Always apply the handbrake when the vehicle is parked. After hearing a series of clicks by pulling the handbrake lever, the vehicle should be blocked. If this is not the case, please contact your AUTHORIZED FERRARI DEALER	Handbrake lever	Page 117

Extreme caution required

	Subject	Page ref.
Never adjust the seat while driving; you may lose control of the vehicle.	Adjustments Seat adjustments	Page 118
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.	Adjustments Seat adjustments	Page 119
Do not adjust the steering wheel when the vehicle is moving.	Adjustments Steering wheel adjustment	Page 120
Keep the glove compartment closed while driving.	Passenger compartment accessories Glove compartment	Page 126
Do not use the cigarette lighter seat as a power socket for electrical items of any kind! The cigarette lighter reaches very high temperatures. Handle it with care to avoid risk of burns and fire. It is possible to connect the emergency tire repair and inflation kit ONLY for the time necessary for the operation.	Passenger compartment accessories Ashtray	Page 127
	Advice for Emergency situations	
In the event of repairs performed using the toolkit provided, you must:	Advice for Emergency situations	Page 130
- use suitable personal protection (e.g., gloves)		
- take suitable precautions (e.g., when changing a tire, never lie under the vehicle raised on the jack)		
- have the basic and specific skills required for working with electrical parts/components.		

Extreme caution required	Subject	Page ref.
After using the repair kit, the vehicle must however be considered to be in an emergency situation: drive with the utmost care (maximum permissible speed 50 mph – 80 km/h). 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.	Toolkit Emergency tire repair and inflation kit	Page 130
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.	Toolkit Tire inflation and repair kit for emergency situations	Page 131
The sealant contained in the cartridge in the tire repair kit may damage the sensor fitted inside the wheel rim on vehicles equipped with the tire pressure monitoring system. In these cases, always have the sensor replaced by an AUTHORIZED FERRARI DEALER.	Toolkit Tire inflation and repair kit for emergency situations	Page 131
If the jack is not positioned correctly, the vehicle could slip off. The jack supplied must only be used for replacing the wheels.	Replacing a wheel Replacing a wheel	Page 152
Inflate the collapsible spare wheel before lowering the car, as otherwise the rims may be damaged	Replacing a wheel Replacing a wheel	Page 152
The kit must be used in "tire inflation" mode. Use lever terminal H.	Replacing a wheel Replacing a wheel	Page 152
The spare wheel is not equipped with the tire pressure monitoring sensor (see label on spare wheel bag). After installation, it is not monitored by the system, but it does comply with International Regulation ECE R64/01. Once fitted, we recommend you go to the nearest AUTHORIZED FERRARI DEALER.	Replacing a wheel Replacing a wheel	Page 152
Always follow the applicable driving and traffic regulations when the vehicle is being towed.	Towing hook	Page 153
Do not tow the vehicle using a hook attached to the suspension levers and wheel rims, but only onto the towing hook properly fitted in its seat. Keep the ignition key in position II to allow the lights to work and to prevent locking of the steering wheel in the event of steering. Do not start the engine when towing the vehicle.	Towing hook	Page 153

Extreme caution required

	Subject	Page ref.
The system can be reactivated by pressing the button on top of the switch.	Fuel inertia switch	Page 153
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.	Battery master switch	Page 154
This operation, when the battery is connected and fully charged, is done automatically whenever the doors are opened or closed. The windows must remain lowered until the recharged battery is reconnected. If the battery is discharged and the windows are fully up, only open the doors when strictly necessary and being extremely careful. Do not close them again until the windows can be lowered.	Battery master switch	Page 154
The battery does not need refilling with distilled water or sulphuric acid.	Checking the battery	Page 155
Keep the battery away from sources of heat and do not use open flames or create sparks near it.	Checking the battery	Page 155
Arrange the battery conditioner in a well visible position, away from heat sources and children's reach.	Checking the battery Battery conditioner	Page 155
The vehicle cannot be started (ignition disabled) as long as the battery conditioner is connected to the socket in the vehicle.	Checking the battery Battery conditioner	Page 156
If the temperature is extreme (light on steady): The temperature in the catalytic converters has reached a dangerous level and could damage them. If you continue to drive, the engine ECU will cut off the fuel supply to the injectors. The driver must stop the vehicle and turn off the engine so the exhaust system can cool down. After about five minutes, restart the engine and drive normally. If the OBD warning light illuminates (see page 157) at the same time, it is necessary to contact and AUTHORIZED FERRARI DEALER to check the control unit's memory for errors. FERRARI is not liable for any damage to property or personal injury arising from failure to comply with the warnings stated above.	Exhaust system overheating alarm devices	Page 156

Extreme caution required

	Subject	Page ref.
When the warning light “Engine control system failure” illuminates, engine performance may be considerably reduced. Drive carefully, avoiding sudden accelerations and high speeds. Contact an AUTHORIZED FERRARI DEALER immediately.	Engine malfunction alarm devices	Page 157
In order to help ensure the quality of the components and accurate installation, we recommend that you have the procedure performed by your AUTHORIZED FERRARI DEALER. To help ensure proper breaking-in of the pads following replacement, avoid sudden and sharp braking until the new pads have been run-in, after about 186 mi (300 km).	Replacing the brake pads and brake discs Replacing the brake pads	Page 157
	Care of the Vehicle	
The Warranty and Service Book also contains special blank spaces where the AUTHORIZED FERRARI DEALER can register the regular maintenance services performed, as indicated in the maintenance schedule.	Warranty and Service Book	Page 160
If the oil level is not checked within 3 minutes (instead of 2 minutes, as indicated above), repeat steps B and C before checking the level.	Level checks Engine oil	Page 161
If the oil level is below the “MIN” notch, top it up and then have the system checked by your AUTHORIZED FERRARI DEALER.	Level checks Engine oil	Page 161
As the first check was performed within a time range of 2-3 minutes, the second oil check must also be performed within the same time range. For instance, if the first check was performed after 2 min. and 30 sec., the second check must also be performed after approximately 2 min. and 30 sec..	Level checks Engine oil	Page 161
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.	Level checks Coolant	Page 162
The oil contained in the brake and clutch systems, in addition to damaging plastic, rubber and painted parts, 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 of children’s reach!	Level checks Brake/clutch fluid	Page 164

Extreme caution required

	Subject	Page ref.
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 refills.	Level checks Brake/clutch fluid	Page 164
Inflating the tires to a pressure differing from that prescribed (see table on page 28) will render the monitoring system inefficient.	Wheels and tires How to use the tires	Page 165
We recommend that you replace the tires when worn to a depth of less than 0.067 in (1.7 mm), but in no case should they be kept on the vehicle for more than four years, even if sufficient tire tread remains. Frequent use in maximum load conditions and at high temperatures may accelerate aging.	Wheels and tires How to use the tires	Page 165
The tires are of the “directional” type and there is an arrow marked on their side to indicate the direction in which they must rotate or which side is the outer side. In the case of replacement, the best performance levels can only be provided if the rotation direction corresponds with the direction indicated by the arrow. Tires on the same axle must always be replaced in pairs.	Wheels and tires How to use the tires	Page 165
Drive carefully on wet roads to reduce the risk of “aquaplaning”.	Wheels and tires How to use the tires	Page 165
All work on any part of the safety system components may only and exclusively be performed by an AUTHORIZED FERRARI DEALER.	Maintenance of the seat belts and pretensioners	Page 166
Do not use aggressive substances to clean the windows. Using aggressive substances may damage some parts of the body.	Cleaning the vehicle Cleaning of the exterior	Page 166
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.	Cleaning the vehicle Cleaning of the exterior	Page 166

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Abbreviation	Meaning
ABS	The ABS system is designed to prevent wheel locking during braking and helps the driver to maintain full steering control over the vehicle.
A.C.	Air Conditioning.
ASR	Anti-skid regulation during acceleration.
AUTO easy exit	AUTO easy exit mode. To exit the “AUTO easy exit” mode, shift one of the two gearshift levers.
Traction power	Force transmitted by the vehicle to the road surface through the wheels; it indicates the grip.
CST	Traction Stability Control.
“TFT” display	Thin Film Transistor display on the instrument panel, that shows information about the control system.
ECU	Electronic Control Unit.
Xenon headlights	The Xenon headlights produce a brighter light beam and use a voltaic arc instead of an incandescent filament.
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.
OBD	On-Board Diagnostic system.
VDC	Vehicle dynamics control using the braking system and engine torque.

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