OWNER'S MANUAL

599 GTB FIORANO

General considerations

This vehicle, which complies with the EC homologation standards, is equipped with state-of-the-art technology and is capable of achieving high performance levels.

It is equipped with sophisticated active and passive safety systems (described below). These safety features and equipment do not authorise the driver to take risks other than those involved in normal driving, since their preventive/protective action is performed only in certain conditions. Unless otherwise and specifically provided for by Ferrari (see the Safety section) it is PROHIBITED to deactivate any safety system.

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

- The driver must be in perfect psycho-physical conditions
- 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.

The vehicle MAY NOT be modified or tampered with for any reason whatsoever, as this would affect the standards required for homologation 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 warning 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 behave prudently and carefully, considering the possible consequences of the malfunction and the type of information signalled.

Even in the event of routine operations, such as refuelling, 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 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 authorise the driver to behave improperly while driving.

These considerations are not exhaustive, but only refer to some general issues that will be specifically dealt with in this Owner's Manual.

Because of the high power generated by the engine, we recommend that the vehicle is only 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 condtion.

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

We also recommend you have all the service operations and checks performed by the Authorised Ferrari Service Centres, as they have skilled staff and suitable equipment.

See the "Sales and Service Organisation" manual for the location of the Ferrari Authorised Dealers and Service Centres.

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 colour:

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 all extremely important notes.

Glossary

Explains the main technical concepts.

Analytical Table of Contents

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!

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

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

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-Blockier-System
Anti-lock braking system for the wheels during braking

ASR

Antriebs-Schlupf-Regelung
Anti-skid regulation during acceleration

F1-Trac

Traction control derived from the technologies used in the racing sector

ECU

Electronic Control Unit

F1

Formula 1
Electronically-controlled gearbox, designed with the same technology as used in the racing sector.

TFT

Thin Film Transistor - display in instrument panel

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 Ferrari Sales and Service Network will be glad to provide you with all the information about the updates made.

All specifications and illustrations contained in this manual refer to those resulting as of the printing date.

Spare parts

We recommend you use genuine Ferrari spare parts, which can be obtained from the Ferrari Service Network.

The Ferrari warranty is voided if repairs are performed using parts that are not Genuine Ferrari Spare Parts.

Warranty and Service book

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

This contains the vehicle's warranty validity conditions.

The warranty booklet also indicates when periodic service is due according to the "MAINTENANCE SCHEDULE".

"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 central console.

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

This new F1 gearbox generation reduces overall gearshifting times. Using the elastic power of the transmission devices - 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 advice for environmental protection.

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

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

Fuel consumption as well as engine, gearbox, brake and tyre 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 tyre pressure is correct.
- Check the fuel consumption.
- Proper periodic maintenance will contribute to preserving your vehicle in full working order and to protecting the environment.
  We therefore advise you to respect the service due dates indicated in the "MAINTENANCE SCHEDULE".

Driving style

- Do not accelerate during the starting procedure.
- Do not warm up the engine when the vehicle is stationary.
- Drive prudently and keep a safety 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.

WARNING The vehicle is equipped with exhaust gas control and monitoring systems, which must always be fully efficient.

1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the Vehicle

6. Table of Notes

7. Glossary

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Vehicle keys

Alarm system

Identification plates and labels

Dimensions and weights

Main engine specifications

Transmission ratios

Performance

Consumption and CO_2 emissions

Wheel rims and tyres

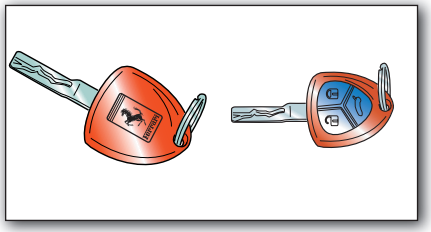
Electrical system

Recommended lubricants and fluids

Vehicle keys

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

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



In the event that the keys are lost or stolen, you can request a duplicate from the Ferrari Service Network (see section "Duplicating the keys" on page 11).

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 the Ferrari Service Network 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

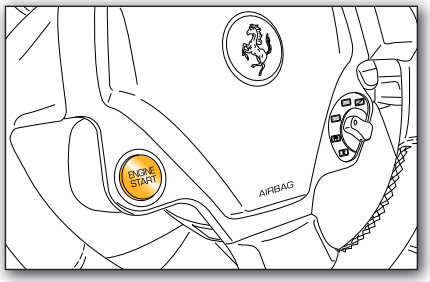
The vehicle is equipped with an electronic immobiliser system (Ferrari CODE) which is automatically activated when the ignition key is removed.

The keys are equipped with an electronic device which transmits a coded signal to the Ferrari CODE ECU. Once this ECU has recognised the signal, it allows starting the engine.

Operation

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

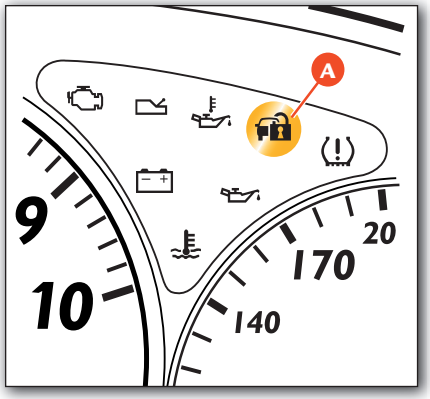
- When starting the engine, press the **ENGINE START** button on the steering wheel:

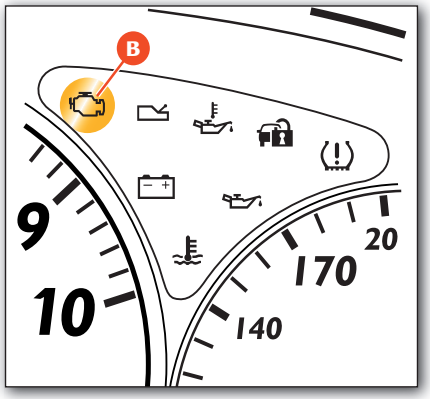


1) If the code is recognised, the **CODE** warning light **A** on the instrument panel turns off within one second, while the **EOBD** warning light **B** turns off after about four seconds, once the

ECU has completed its diagnostic cycle. In these conditions, the protection system has recognised the key code and deactivated the immobiliser.

If you are still unable to start the engine, use the emergency starting procedure (see page 10) and contact the Ferrari Service Network.





2) If the **CODE** warning light **A** remains on and the **EOBD** warning light **B** does not turn off after the **ECU** has completed its diagnostic cycle, it means that the code has not been recognised. In this case, it is advisable to turn the key back to position 0 and then back to **II**. If the immobiliser device remains active, try with the other key provided.

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

1) If the **CODE** warning light **A** turns on, it means that the system is performing a self-diagnostic cycle. At the first opportunity, you can stop and test the system: switch off the engine by turning the ignition key to position 0, then turn the key back to position **II**. The **CODE** warning light **A** will turn on 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 the Ferrari Service Network.

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

Contact the Ferrari Service Network immediately to have all the keys stored in the system memory.

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

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 the Ferrari Service Network directly and bring the following with you:

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

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

Emergency starting

If the Ferrari CODE is unable to deactivate the immobiliser:

- the **CODE** warning light remains permanently on
- the **EOBD** 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 that 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 **EOBD** warning lights are on.
3) Fully depress and hold the accelerator pedal. Approximately 8 seconds later, the **EOBD** warning light will go off. Release the accelerator pedal and get ready to count the number of times the **EOBD** 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 **EOBD** warning light goes off, after remaining on for approximately 4 seconds. Release the accelerator pedal.
5) The **EOBD** 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 pressed down. The **EOBD** warning light comes on for 4 seconds and then goes off. You can now release the accelerator pedal.
8) A quick flashing of the **EOBD** warning light (about 4 seconds) confirms that the operation has been successful.
9) Start the engine.

If the **EOBD** 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.

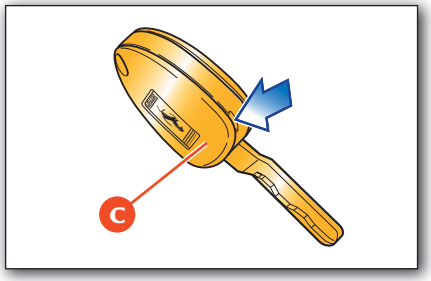
After an emergency starting procedure, it is advisable to contact the Ferrari Service Network to solve the problem. Otherwise, you will have to perform the emergency starting procedure every time the engine is started.

Replacing remote control batteries

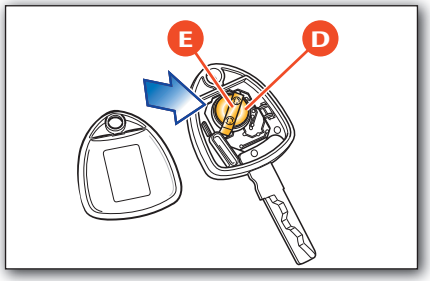
If the respective function is not activated when one of the three buttons on the key is pressed, replace the remote control batteries after first checking that the alarm system functions are working with the other remote control.

Replace the remote control batteries as follows:

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



- remove the battery **D**, pushing in the direction indicated by the arrow to release it from the retainer cover **E**;
- fit a new battery of the same type, respecting the polarity as indicated;
- close the key cover **C**.



Do not use sharp implements to open the key cover and take the utmost care not to damage the remote control.

Electronic alarm

The electronic alarm system performs the following functions:

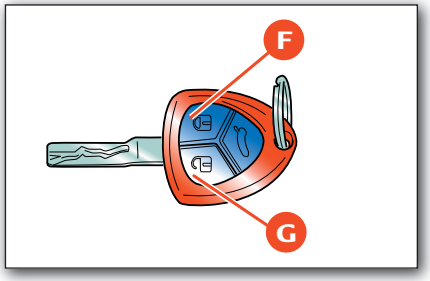
- remote control for central door locking/unlocking;
- perimeter surveillance, detecting the opening of doors and lids;
- motion surveillance, detecting intrusion into the passenger compartment;
- vehicle movement surveillance.

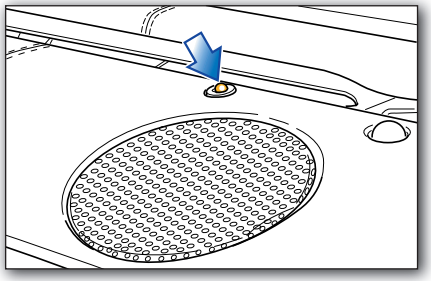
Activation

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 system activates after approximately 25 seconds.





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.

The direction indicators and the red LED on the dashboard should be flashing 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 the Ferrari Service Network to have the system checked.

Deactivation

To turn off 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.

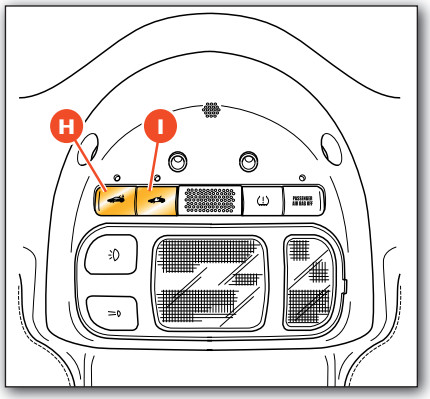
The alarm system is off and it is therefore possible to get into the vehicle and to start the engine.

If the remote control battery is flat, 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.

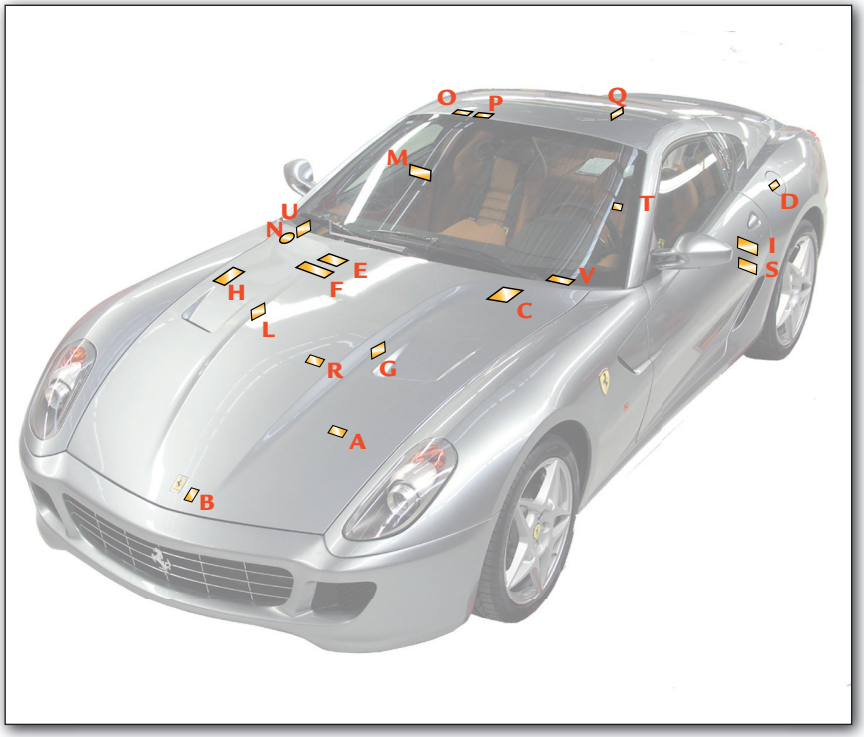
Alarm memory

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

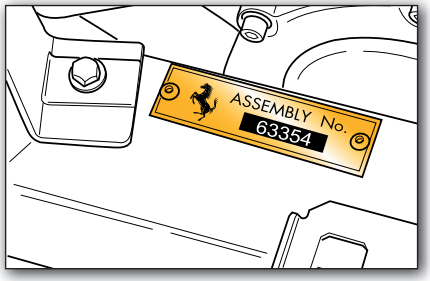
The alarm system memory is reset by turning the ignition key.

Identification plates and labels

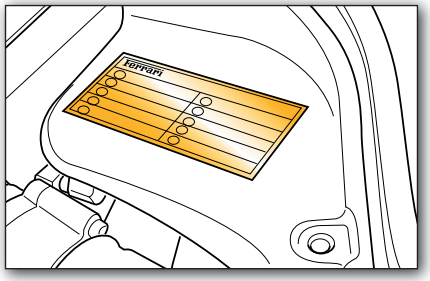
A Assembly number plate
B Low-beam homologation label
C Homologation and ECE label
D Fuel label
E Paintwork label
F Oil level check label
G High voltage label
H Engine oil type label
I Tyre pressure label
L Anti-freeze label
M Vehicle identification plate
N Warning label prohibiting child seat installation
O Passenger's airbag deactivation label
P Airbag warning label
Q Battery master switch instruction label
R Engine type and number
S Tyre pressure and temperature monitoring system label
T Gearbox type and number
U Airbag maintenance label
V Chassis number plate



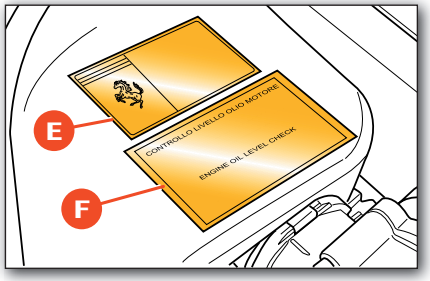
A Assembly number plate



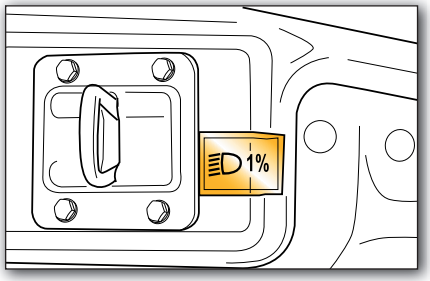
C ECE homologation label



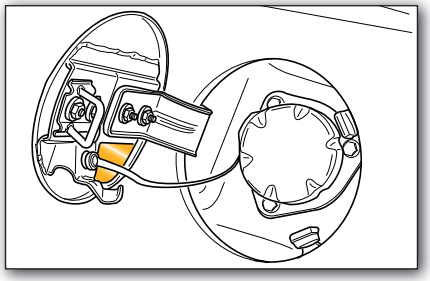
E Paintwork label
F Oil level check label



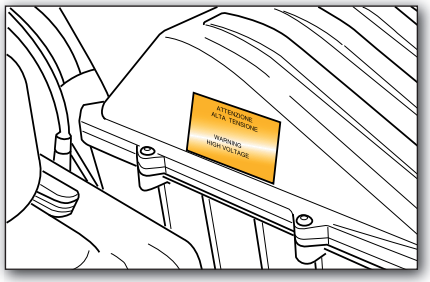
B High-beam homologation label



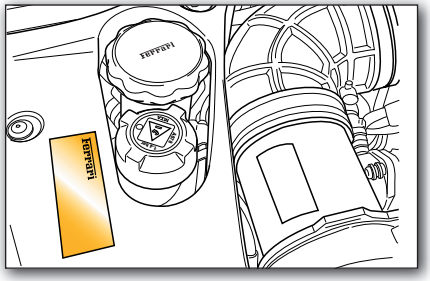
D Fuel label



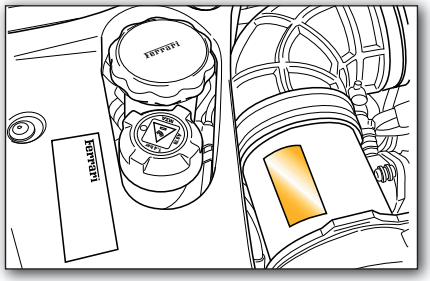
G High voltage label



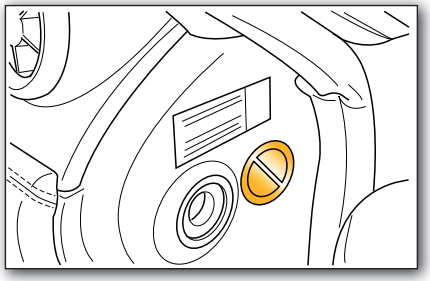
H Engine oil type label



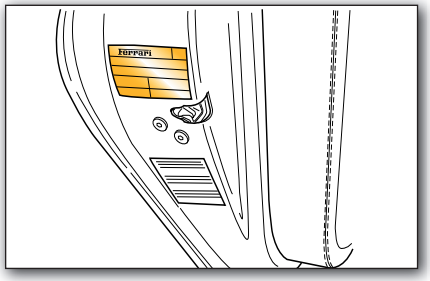
L Anti-freeze label



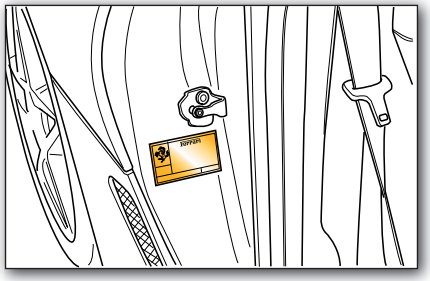
N Warning label prohibiting child seat installation



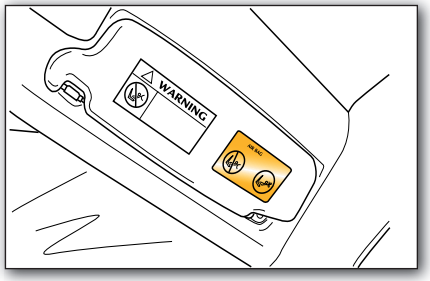
I Tyre pressure label



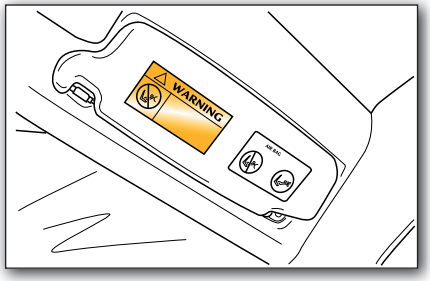
M Vehicle identification plate



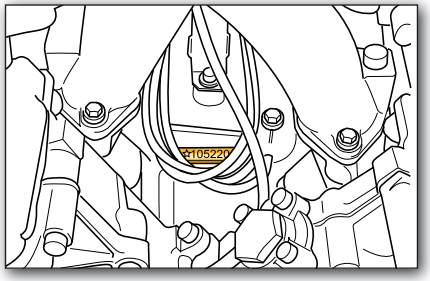
O Passenger's airbag deactivation label



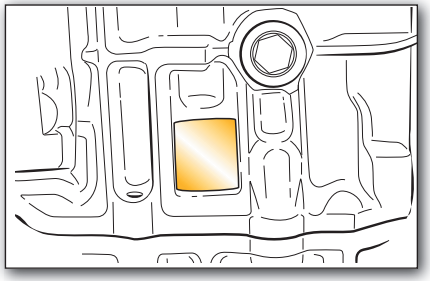
P Airbag warning label



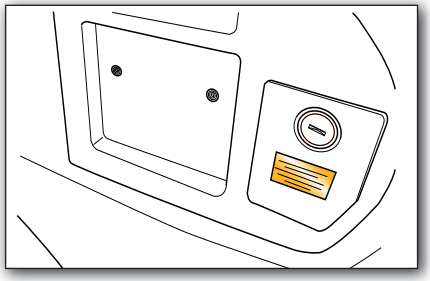
R Engine type and number



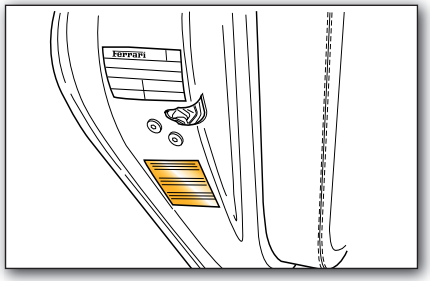
T Gearbox type and number



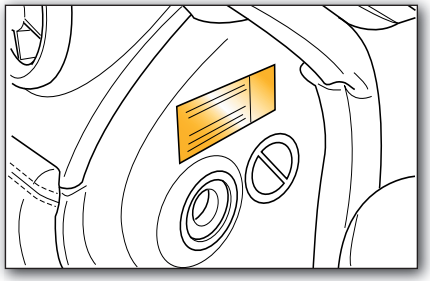
Q Battery master switch instruction label



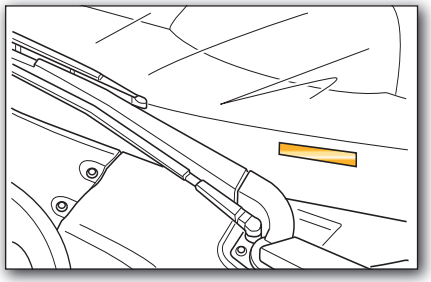
S Tyre pressure and temperature monitoring system label



U Airbag maintenance label



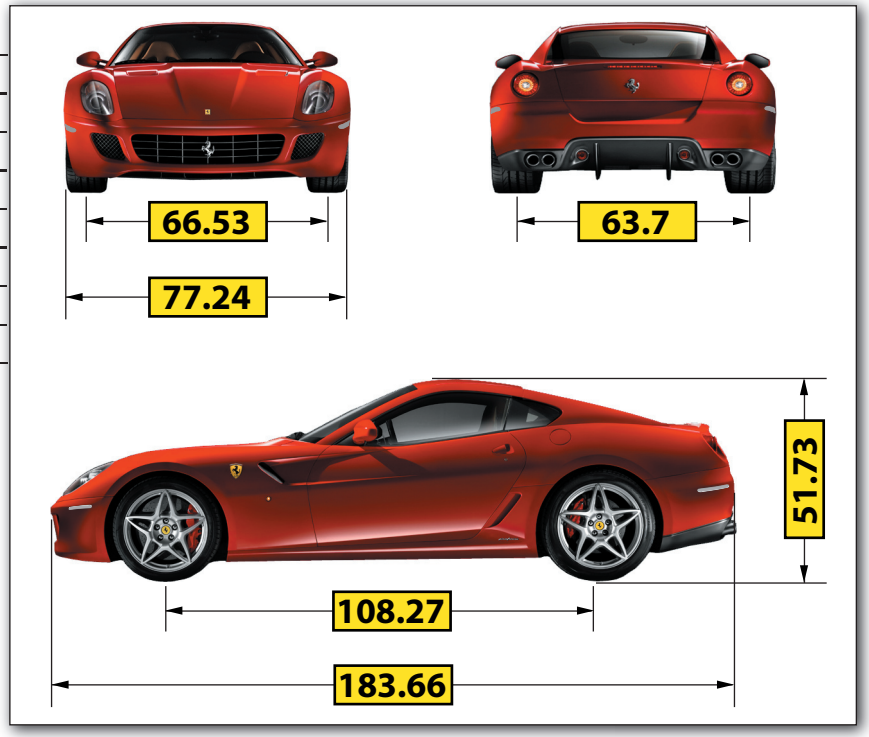
V Chassis number plate



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	51.73 in. (1314 mm)
Front track	66.53 in. (1690 mm)
Rear track	63.7 in. (1618 mm)
Kerb weight	3,777 lbs. (1715 kg *)
Kerb weight (F1)	3,810 lbs. (1730 kg *)

* considering the most popular options available



Main engine specifications

Type	F140C
Number of cylinders	12
Cylinder bore	92 mm
Piston stroke	75.2 mm
Total displacement	5999 cm^3
Compression ratio	11.2:1
Maximum RPM	8250 RPM
RPM limiter	8400 RPM
Max. power (Directive 1999/99/EC)	456 kW (620 HP)
Corresponding RPM	7600 RPM
Max. power (Directive 1999/99/EC)	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 - 200 km/h	Max. speed
F1	3.7 sec	11 sec	> 330 km/h
Mechanical Gearbox Version	3.7 sec	11 sec	> 205 mph (> 330 km/h)

Consumption and CO_2 emissions

Dir. 1999/100/EC	l/100 km	g/km
City cycle	27	620
Motorway	12.5	290
Combined cycle	17.9	415

Electrical system

Supply voltage	*Alternator*
12 V	Nippondenso 150 A
Battery	*Starter motor*
Fiamm 12V, 74 AH, 440 A	Nippondenso

Wheel rims and tyres

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

Ferrari-approved tyres				*Inflation pressure (cold)*		
	Front	Rear	Spare wheel	Front	Rear	Spare wheel
Pirelli P Zero	245/40 ZR19	305/35 ZR20	115/70 ZR19	**2.2 bar**	**2.0 bar**	**4.2 bar**

Optional tyres			*Inflation pressure (cold)*	
	Front	Rear	Front	Rear
Pirelli P Zero	245/35 ZR20		**2.2 bar**	
Bridgestone RE 050 (Run Flat)	245/35 ZR20	305/35 ZR20	**2.2 bar**	**2.2 bar**
Goodyear Eagle	245/40 ZR19	305/35 ZR20	**2.5 bar**	**2.5 bar**

Snow tyres			*Inflation pressure (when cold)*	
	Front	Rear	Front	Rear
Winter Pirelli	245/40 ZR19	305/35 ZR20	**35 psi (2.4 bar)**	**32 psi (2.2 bar)**

Run Flat tyres (optional)

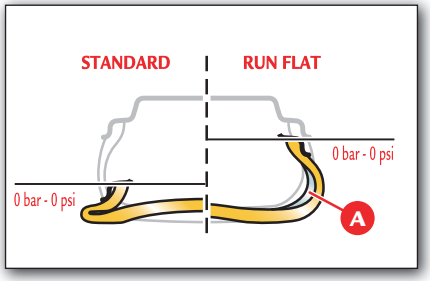
The vehicle can come equipped with "Run flat" tyres. This type of tyre has a reinforced side **A** which allows the vehicle to continue travelling at moderate speed (80 km/h), even after a puncture, for a specific distance.

The instrument panel receives the "tyre puncture" information from the tyre pressure monitoring ECU, monitors the residual tyre life, and displays a warning in the dedicated area of the TFT display after 50 km.

After 100 km, a message warning the driver to stop the vehicle will be displayed (see "Tyre pressure and temperature monitoring system" on page 42).

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

More information on these tyres and on the relative pressure monitoring system can be found in the "Carrozzeria Scaglietti" Owner's Manual.



If you are going to use standard tyres on a vehicle that was originally equipped with "Run Flat" tyres, you must contact the Ferrari Service Network to have the dashboard reprogrammed and to prevent viewing warning messages on the TFT display.

Recommended lubricants and fluids

Parts to be refilled		*Quantity*	*Fill with*	*Ref. Page*
Engine	Total system capacity	12 l	Shell HELIX ULTRA SAE 10W-60	147
	Oil level between Min. and Max.	1.5 l		
	Oil consumption	1.0 ÷ 2.0 l/1,000 km		
Gearbox and differential		5 l	Shell TRANSAXLE SAE 75W-90	147
F1 gearbox system		1 l	Shell DONAX TX	147
Braking and clutch system		1.5 l	Shell DONAX UB BRAKE FLUID DOT4 *Ultra*	149
F1 braking system		1.5 l	Shell DONAX UB BRAKE FLUID DOT4 *Ultra*	149
Cooling circuit		24 l	Shell GLYCOSHELL at 50%	148
Hydraulic steering system		1 l	Shell DONAX TX	149
	Steering box	100 g		
Fuel tank		105 l	Unleaded fuel 95 RON	55
	Reserve	20 l		
Air conditioning and heating system				-
	Compressor	165 cc	DELPHI RL 488 “R 134 A”	
	Coolant	750 ± 50 g		
Windscreen washer and headlight washer fluid tank		6.5 l	Mixture of water and glass cleaner	150

Seat belts

Pretensioners

Child safety

Airbag

Side Airbag

ABS

CST

F1-Trac

Tyre pressure and
temperature monitoring system

Seat belts

The driver must respect and have the passengers observe the provisions of local legislation regarding the compulsory use of seat belts. In the European Community, Directive 2003/20/EC requires the driver and passenger to wear the seat belts, and to use child restraint systems.

If used correctly, the seat belts, in combination with the pretensioners, have been designed to protect the wearer from a variety of impacts.

ATTENZIONE Ferrari recommends you use the seat belts correctly fastened and adjusted at all times!

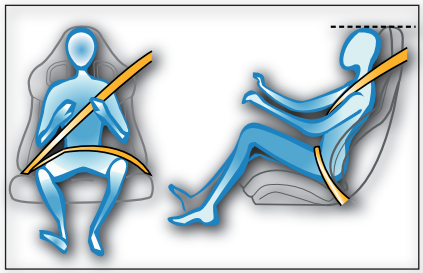
Correct use of the seat belts can reduce the risk of serious injury in the event of an accident.

If the driver permits the passenger not to wear the seat belts, he shares the risk posed by failed use and is equally guilty of violation.

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

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

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



ATTENZIONE Do not let the seat belts come into contact with cutting edges. They may get damaged and may consequently break in the event of a collision.

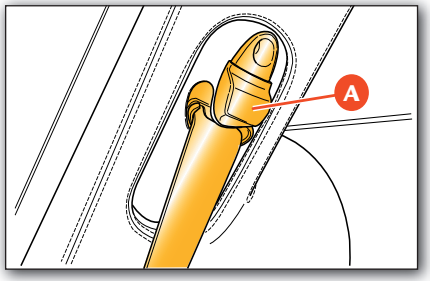
ATTENZIONE Do not attach or pin anything onto the seat belts: this may damage and consequently break the belts in the event of a collision.

ATTENZIONE If a seat belt has come into contact with cutting edges or was somehow perforated, we recommend you have it immediately replaced by the Ferrari Service Network.

Adjusting seat belt height

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

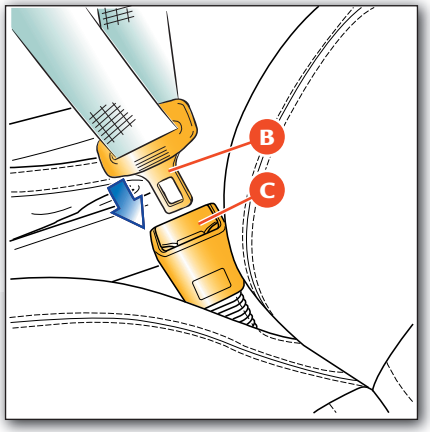
Always ensure that the mechanism has locked correctly. The seat belt should be adjusted so that the diagonal section passes approximately halfway between the shoulder and the neck. The lap section of the belt must pass over the hips, not the abdomen.



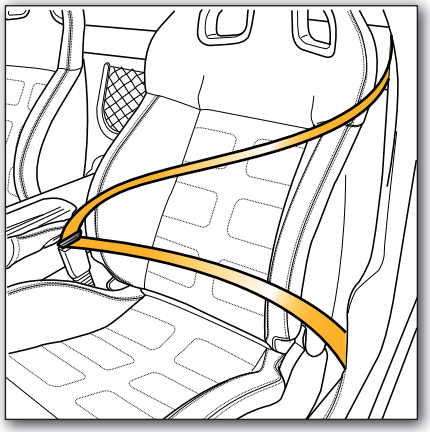
Fastening the seat belts

Adjust the seat and headrest properly.

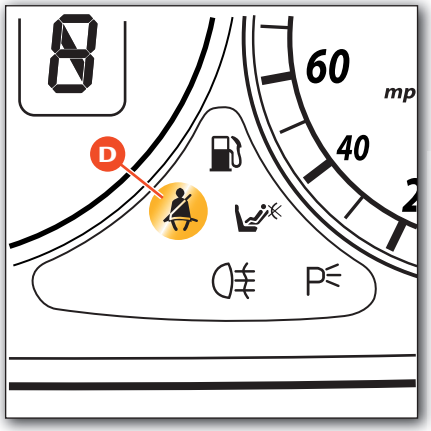
- Grip the belt latch **B**, pull the belt slowly and insert the latch into the buckle **C**. If the belt blocks when pulled, allow the belt to rewind slightly, then pull again slowly.



- Make sure that it has clicked into place.
- Position the seat belt correctly. Do not use any objects (e.g. spring clips, locks, etc.) that hold the seat belt away from your body.



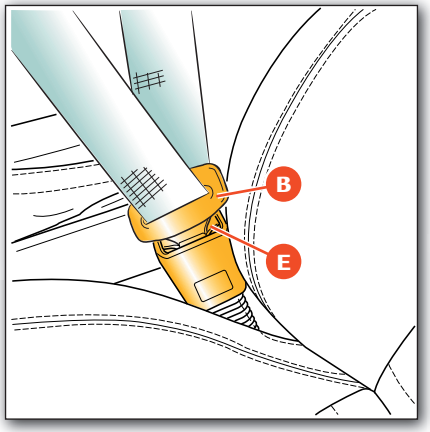
Do not allow children to be held on a passenger's lap using only one seat belt for both of them.



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

Unfastening the seat belts

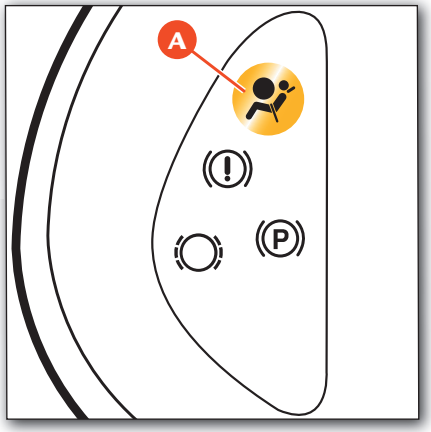
- Push the release button **E**.
- Accompany the belt latch **B** back to its rest position.



Pretensioners

The pretensioner is activated by the airbag ECU in the event of a head-on collision (impact direction between 11 and 1 o'clock) of sufficient severity, or in a side collision of sufficient severity. The belt will rewind a few centimetres just before the restraining action begins, thereby improving the fitting across the occupant's body.

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



ATTENZIONE Pretensioners that have been activated will no longer function and may not be repaired under any circumstances. Contact the Ferrari Service Network 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.

ATTENZIONE All work on any part of the safety system components may only and exclusively be performed by the Ferrari Service Network.

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 was designed to reduce the retaining force exerted by the seat belts on the occupant's body during a collision. This device controls the force level with which the belt is rewound during a collision.

Child safety

ATTENZIONE Do not install rear facing child seats on the front passenger seat if the airbag is enabled, as this may cause serious injury in the event of airbag deployment.

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

ATTENZIONE 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.

ATTENZIONE Children may only travel in a rearward-mounting child seat installed on the passenger seat if the vehicle is provided with the “passenger airbag deactivation kit” (optional) and when the passenger-side airbag is deactivated.

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

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

In any case, you are advised to always use homologated 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 36 Kg and taller than 1.50 m.
- To properly protect children outside these limits, specific restraint systems with dedicated belts or accessories capable of adapting the child's position to the vehicle seat belts must be fitted.

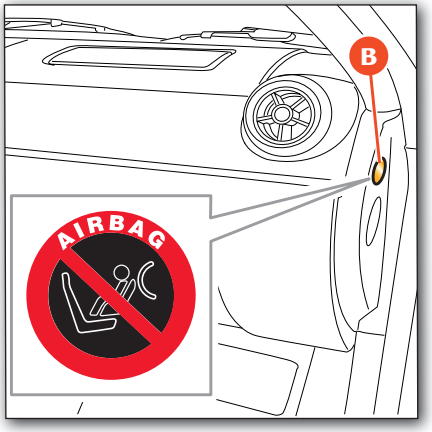
Follow the instructions that the Manufacturer of the devices is required to supply when installing and using the child restraint systems.

On some vehicle models, the passenger-side seat belt is equipped with a special retractor, which helps fastening the child seat properly. To install the child seat, pull out the seat belt completely. The belt retractor will only allow the seat belt to rewind and it will not be possible to pull it out afterwards. Check that the seat belt locking system is active by trying to pull the belt out, without forcing it. If the system is active, this will not be possible.

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

The sticker **B** prohibits installing a child seat facing rearwards on the front passenger seat.

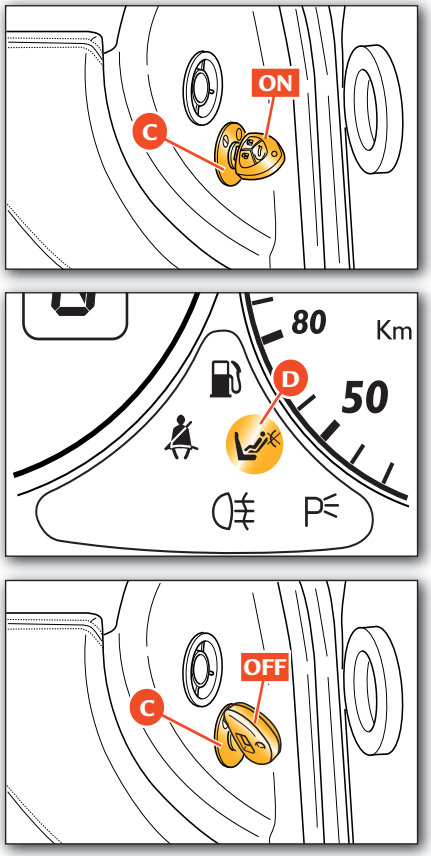
If you need to carry a child on the front passenger seat, always deactivate the passenger-side airbag using the "passenger airbag deactivation kit" (optional), on the vehicles equipped with this device, before installing the child seat on this seat.



The airbag is deactivated using the switch **C** - which is operated by means of the specific key - located on the right-hand side of the dashboard. The switch is accessible only when the door is open.

The key switch has two positions:

- passenger airbag active: (position **ON**) warning light **D** on the instrument panel off;
- passenger airbag deactivated: (position **OFF**) warning light **D** on the instrument panel on.



The warning light **D** will be permanently on, until the passenger-side airbag is reactivated.

When the door is open, the key can be inserted or removed in both positions.

ATTENZIONE Always reactivate the passenger-side airbag after carrying a child.

ATTENZIONE Adults travelling in the passenger seat with the passenger airbag disabled are exposed to a greater risk of injury in the event of an accident.

ATTENZIONE Never carry children on an adult's lap. During a collision, the adult's weight may crush the child against the seat belt or against the dashboard.

ATTENZIONE Do not use the vehicle to carry newborn babies. The high performance and, in particular, powerful acceleration of the vehicle may be harmful to small children.

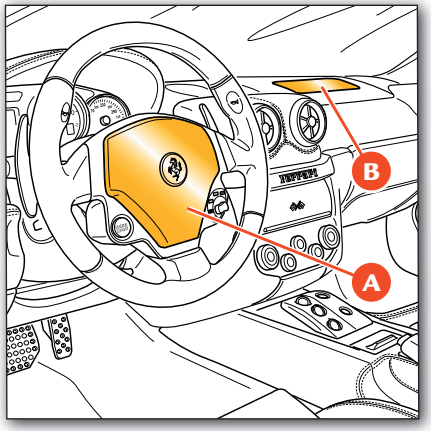
ATTENZIONE Drive carefully and at moderate speed if you are carrying children. Sharp accelerations and sports-style driving may be dangerous for children, even if no collision occurs.

Airbag

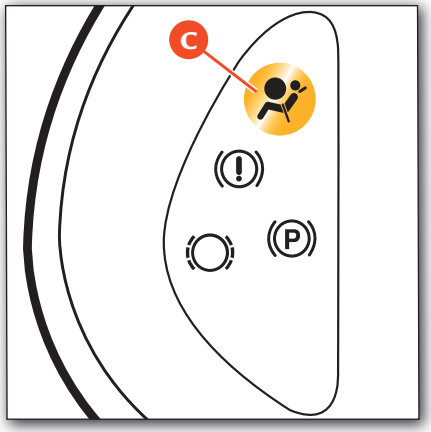
ATTENZIONE The airbag is not a substitute for the seat belts, although it increases their efficiency. Correct use of the seat belts in combination with the airbag offers maximum protection in the event of a collision.

Airbag system components

The airbag system is composed of two instantly inflatable cushions, one on the driver side, in the centre of the steering wheel **A**, and the other on the passenger side, inside the dashboard **B**.



Warning light **C** comes on when the ignition key is turned to position II. If no malfunctions are detected, the warning light goes out after approximately 4 seconds. If the warning light does not come on, if it remains on or if it comes on while driving, contact the Ferrari Service Network immediately.



Operation

The airbags are controlled by an ECU which activates them in the event of a head-on collision (direction of impact between 11 and 1 o'clock) of sufficient severity.

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 tenths of milliseconds. Once deployed, they will serve as protection between the driver and/or passenger and structures that could cause injury.

The airbags deflate immediately afterwards.

The driver and passenger should not carry any objects (beverage cans or bottles, pipes, etc.,) that may cause injury in the event of airbag activation.

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.

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

Driving with your hands on the steering wheel spokes 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 have optimal protection in all types of collision.

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

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

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

Do not allow children to sit on the front seat even when the vehicle is stationary.

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

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

Never place an object over or near the airbag covers.

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

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 the Ferrari Service Network.

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 a Ferrari Service Network Centre.

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

Following an accident not involving airbag deployment, contact the Ferrari Service Network 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.

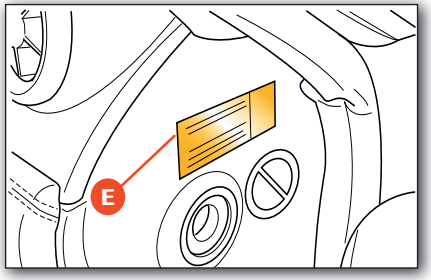
The airbag system components have been specially designed only for this specific vehicle model. Do not use them on a different vehicle model, as this may cause serious damage and consequent injury, even fatal, to the occupants in the event of an accident.

To scrap the vehicle, please contact the Ferrari Service Network to have the airbag system deactivated.

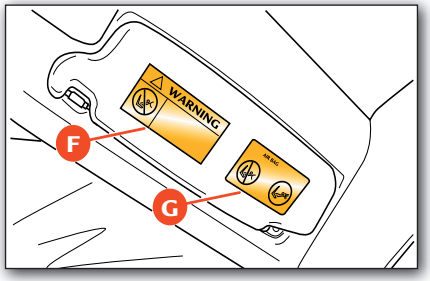
If the vehicle has been stolen or there has been an attempted theft, have the airbag system checked by the Ferrari Service Network.

The airbag modules must be replaced at the intervals indicated in the "WARRANTY BOOKLET" 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 expiry date. When this expiry date is approaching, contact the Ferrari Service Network in order to have the system replaced.



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



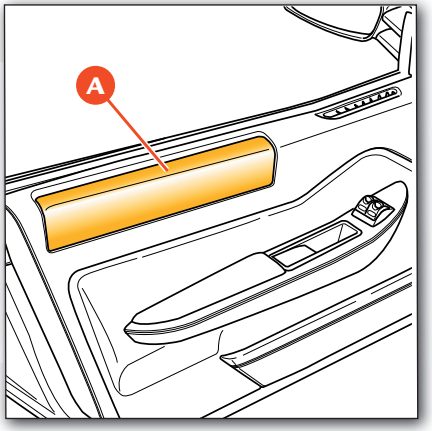
Side Airbag

The airbags are not a substitute for the seat belts, although they increase their efficiency. Correct use of the seat belts, with the supplementary action of the side bags, offers maximum protection in the event of a collision or vehicle roll-over.

Side bag system components

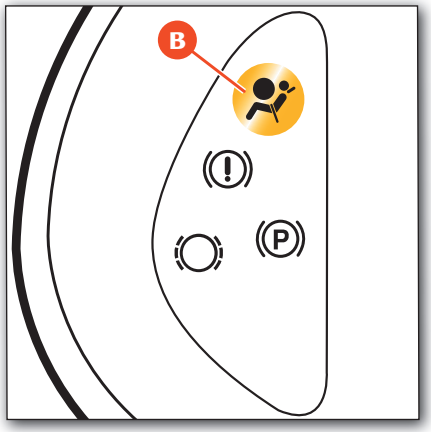
The side bag fitted on the vehicle was not designed to reduce the risk of being hurled out in the event of vehicle roll-overs.

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



The side bag system is composed of two airbags that deploy instantaneously in order to protect the occupants' head in the event of a side impact.

When the ignition key is turned to position **II**, the warning light **B** will come on. If no malfunctioning in the airbag system is detected, it will go off after 4 seconds. If the warning light does not come on, if it remains on or if it comes on while driving, contact the Ferrari Service Network immediately.



Operation

The side bags are controlled by a dedicated ECU that activates them when a collision of a sufficient severity occurs.

In the event of a side collision with a force of impact 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 breaking line, until it is fully deployed (in a few hundredths of seconds).

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 is activated whenever the airbag ECU detects a collision of a sufficient impact force for deployment.

Never put your head out of the vehicle as this places your head and neck in the airbag deployment area. In the event of a side-on collision, this position increases the risk of being thrown through the window and compromises 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 propelled into the passenger compartment at such high speed as to seriously jeopardise the safety of the occupants.

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 the Ferrari Service Network.

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

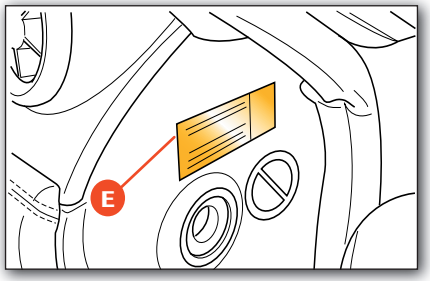
Please consider that the airbag ECU is not capable of automatically detecting damages involving the airbag covers.

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.

After deployment, the airbag components can no longer offer any protection; therefore, they cannot be repaired and must be replaced. After activation of a side bag, have it replaced by the Ferrari Service Network.

The side bag units must be replaced 15 years after installation, even if the vehicle was not involved in accidents.

The label **E** on the right-hand side of the dashboard, bears the airbag system expiry date. When this expiry date is approaching, contact the Ferrari Service Network in order to have the system replaced.



Never remove the door panel. If required, this operation must be performed by the Ferrari Service Network.

ABS

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

The system is composed of:

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

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

When the **ABS** system is active, during emergency braking or in poor grip conditions, a "pulsing" sensation will be felt through 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 circuit by running a 3-phase cycle:

- Reduction (if necessary)
- Maintenance.

- Pressure increase in the hydraulic circuit.

In the event of **ABS** activation under braking, these regulation cycles will be repeated until the car comes to a stop or the pressure on the brake pedal is reduced.

In addition, the system offers the following advantages:

- Driving stability (no skidding): even in the event of sharp braking approaching wheel locking.
- Manoeuvrability (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 tyre 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 excessive speeds for the traffic or road conditions, worn tyres, worn braking system components or driver errors.

The **ABS** system has been designed for the sole purpose of assisting the driver in controlling braking under extreme conditions, in which he/she 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 provide optimal control in different driving and grip conditions, four different setting levels have been designed:

- **Level 1**: ensures stability and maximises traction on every type of road surface, both in low (Manettino set to **Low Grip**) and very low (**ICE** position) 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**: ensures stability and maximises traction only in medium- to high-grip conditions (Manettino set to **SPORT**) optimising engine and brake control.
- **Level 3**: enhances the racing features of the vehicle, ensuring (but not in all conditions) a good level of stability (Manettino set to **RACE**) by reducing engine control to a minimum and making the best use of brake control.
- **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.

F1-Trac

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

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

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

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

Tyre pressure and temperature monitoring system

The vehicle is equipped with a system that monitors the tyre 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, and 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 tyre pressure and temperature data and 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 decrease in relation to the rated pressure is **greater than 0.2 bar**, and a **hard warning** (HW) if it is **greater than 0.4 bar** or there is a dynamic decrease of over 0.2 bar/min.

The calibration button is positioned on the inside roof panel (see page 78).

After tyre replacement or inflation, the system must be calibrated using the relative button on the dashboard.

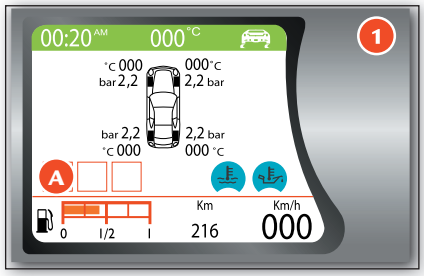
ATTENZIONE The system warns the driver that there is a drop in tyre pressure. However, this does not exempt the driver from periodically checking that the tyres are inflated to the indicated pressure.

In addition, the system is UNABLE to warn the driver of sudden damage to the tyres caused by external objects/agents.

Viewing messages on the "TFT" display

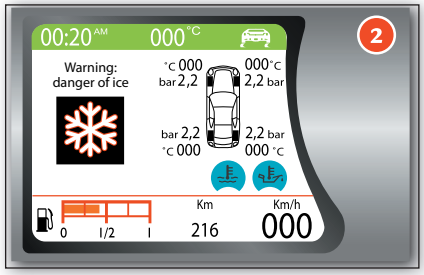
By pressing the **DISP** button or using the Menu function, the driver can access the **TYRES** information screen page, which shows the pressure and temperature values for each tyre, as in the following example **1**.

The system is not monitoring the temperature. There are no messages concerning temperature on the TFT display.



The **TYRES** information page can also be set as main screen page (see page 67).

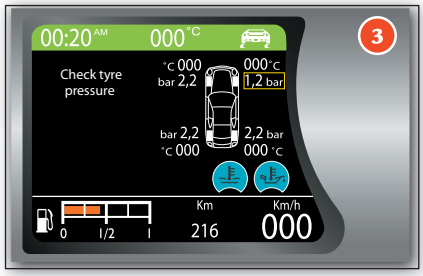
In the case of specific event indication (e.g. malfunctions with **priority levels 1/2**, see page 70), the screen page appears as shown in the following example 2 for a time equal to the entire malfunction display cycle.



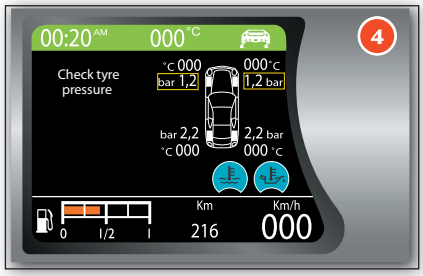
When the display cycle ends, the **TYRES** screen page becomes available again and the summary symbol for the malfunction is displayed in the specific area, A (screen page 1), until the malfunction is corrected.

Low pressure

When the on-board instrument panel receives the signal from the tyre pressure ECU that the pressure level of one or more tyres is below the *alarm threshold*, screen page 3 will appear on the display (regardless of the main screen page set).

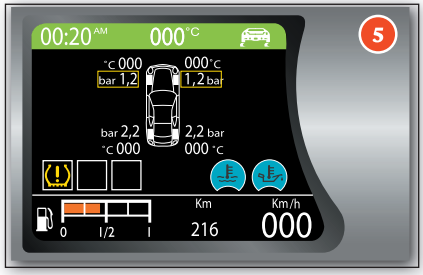


If the pressure of more than one tyre drops below the *alarm threshold* , the following screen page 4 is displayed.



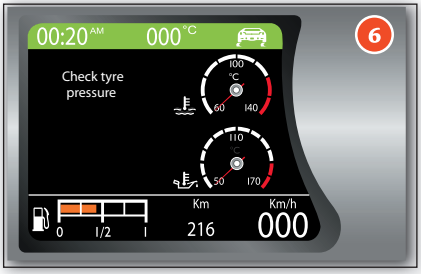
After the display period has elapsed, the specific screen page is no longer displayed.

Subsequently, if the **TYRES** screen page is active, the TFT display appears as in the following screen page 5.



Upon the next engine starting, if the failure persists, the relative warning light will appear 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.



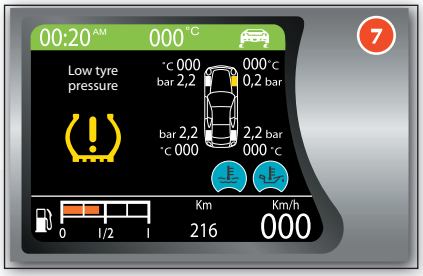
After the display period has elapsed, the specific screen page is no longer displayed.

The **TYRES** screen page showing the pressure of each individual tyre is not accessible by the driver.

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.

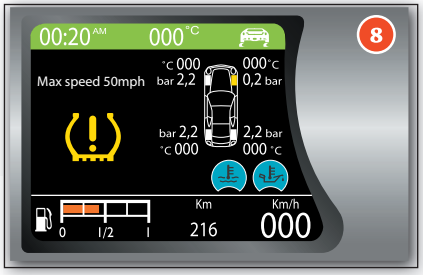
Tyre punctures

When the on-board instrument panel receives the signal from the tyre pressure monitoring ECU indicating that the pressure of one or more tyres is below the alarm threshold, this is displayed in the following screen page 7. The relative warning light simultaneously illuminates on the instrument panel (see page 77).



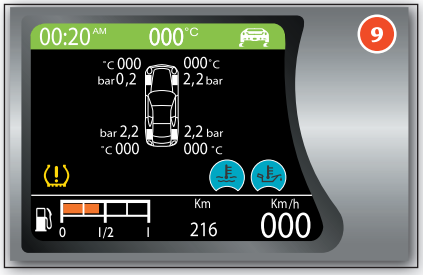
The same display logic is applied for other **priority level 0** malfunctions, until the situation is corrected and the system is recalibrated (following a key-off and key-on cycle).

On vehicles equipped with "Run Flat" tyres, screen page 7 is shown instead, alternating with the following screen page 8 four times.

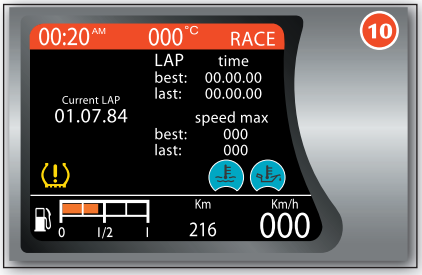


Subsequently, the symbol will be displayed in the area dedicated to the warning lights until the situation is corrected, as is the case for all other **priority level 2** malfunctions.

If the **TYRES** screen page is set as the main page, screen page 9 will be displayed.



If the **TYRES** screen page is not set as the main screen, the following screen page 10 will be displayed.



The instrument panel calculates the remaining range and displays the screen again after 50 Km (31 miles).

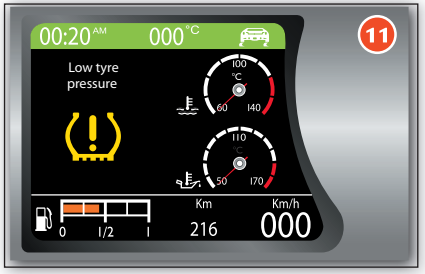
When in a "punctured tyre" condition, screen page 7 is displayed if the vehicle is driven for more than 100 Km (62 miles) and screen pages 7 or 8 are displayed if the vehicle speed exceeds 80 Km/h (50 mph), as per the display logic applied for all **priority** 0 malfunctions.

Following a key-off / key-on cycle, the on-board panel must display the "System not calibrated" screen (see page 44). The **TYRES** screen page is not accessible by the driver.

If, during the display cycle of priority level 0 malfunctions (normal tyre puncture), the driver presses the **MODE** button, the Set-up Menu is accessed immediately, as for other priority level 0 malfunctions.

If, during the **priority 2** cycle described above (tyre puncture with Run Flat tyres, with maximum speed limit not exceeded and tyres still usable), the driver presses the **MODE** button, screen page 9 is displayed, together with the multi-function symbol in the warning lights area, as with all other **priority 2** malfunctions, until the situation is corrected and the system recalibrated as requested.

The system may not know which wheel is originating the malfunction and therefore is not capable of indicating the wheel involved. If the **TYRES** screen page is set as the main page, screen page 11 will be displayed.



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

The **TYRES** screen page showing the pressure of each individual tyre is not accessible by the driver.

On vehicles equipped with "Run Flat" tyres, screen page 11 is shown instead, alternating with the following screen page 12 four times.

Subsequently, the symbol is displayed in the warning lights area **A** until the situation has been corrected, as per the display logic for all **priority 2** malfunctions.

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

The instrument panel calculates the remaining range and displays the screen again after 50 Km (31 miles).

When in a "punctured tyre" condition, screen page **11** is displayed if the vehicle is driven for more than 100 Km (62 miles) and screen pages **11** or **12** are displayed if the vehicle speed exceeds 80 Km/h (50 mph), as per the display logic applied for all **priority** 0 malfunctions.

Following a key-off/key-on cycle, the on-board panel must display the "System not calibrated" screen (see page 44). The **TYRES** screen page is not accessible by the driver.

System not calibrated

If the system has not been calibrated or following the replacement of one or more tyres, screen page **13** is displayed. The relative warning light simultaneously illuminates on the instrument panel (see page 77). The warning light remains lit until the system has been 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 may be calibrated by pressing and holding the relative button for 4 to 10 seconds (see page 78), 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 **TYRES** screen page is not accessible by the driver.

ATTENZIONE

Before calibrating the system, make sure that the tyre pressures correspond to the indicated pressure values (see page 23). If this is not the case, the system may issue wrong low pressure indications.

Tyre 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.

The relative warning light simultaneously illuminates on the instrument panel (see page 77). The warning light remains lit until the system has been calibrated.

The **TYRES** screen page is not accessible by the driver.

System temporarily not active

When one of the following conditions occurs:

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

screen page **16** is displayed.

The relative warning light simultaneously illuminates on the instrument panel (see page 77). The warning light remains lit until the system has been 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 **TYRES** screen page is not accessible by the driver.

System not active

If the system has been deactivated with a diagnostic instrument, the following screen page **17** is displayed for a few seconds upon key-on. The relative warning light simultaneously illuminates on the instrument panel (see page 77). The warning light remains lit until the system has been calibrated.

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

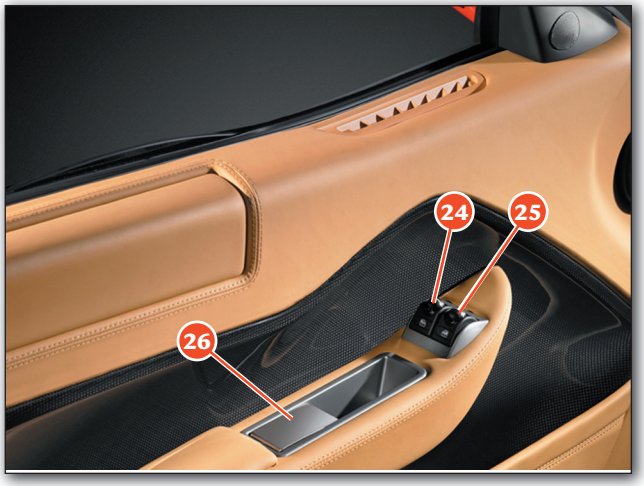
The **TYRES** screen page is not accessible by the driver.

Overview of controls

Ref.	Control	Page
1	Adjustable central air vents	110
2	Glove compartment	110
3	Hazard warning lights control	61
4	Glove compartment opening button	111
5	Parking sensor control	95
6	Controls for door opening and closing from the inside	52
7	Ashtray	112
8	F1 gearbox buttons (*)	90
9	Reverse button (*)	85

Ref.	Control	Page
10	Air conditioning and heating system controls	107
11	Car radio system	-
12	Light switch	57
13	“ENGINE START” button	79
14	“Manettino” control	79
15	“TFT” display	63
16	Rev. Counter	74
17	Electronic speedometer	74

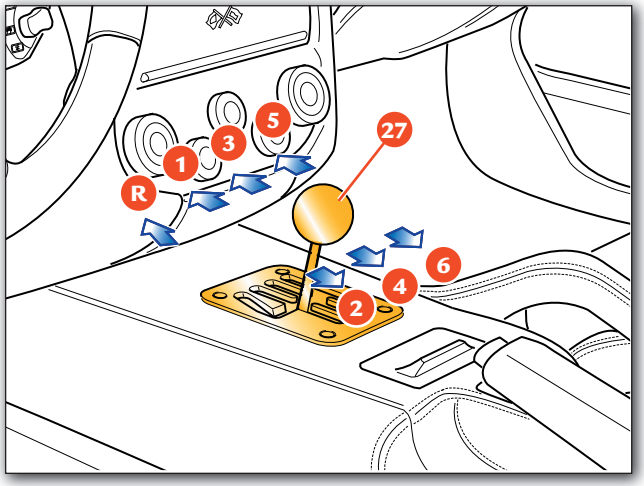
(*) Only for “F1” gearbox version



Ref.	Control	Page
18	External rear-view mirror adjustment	106
19	External light and direction indicator control lever	57, 59
20	"DOWN" gearshift lever (*)	81
21	Horn control	81
22	Windscreen wiper/washer/headlight washer control lever	81
23	"UP" gearshift lever (*)	81

Ref.	Control	Page
24	Driver-side power window control	56
25	Passenger-side power window control	56
26	Control for door opening from the inside	52

(*) Only for "F1" gearbox version



Ref.	Control	Page
27	Mechanical gearshift lever	92

Opening and closing

Doors

Introduction

When a door is opened or closed, the window automatically moves down by approximately 2 centimetres, *"preset position"* **A**, in order to avoid hitting 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

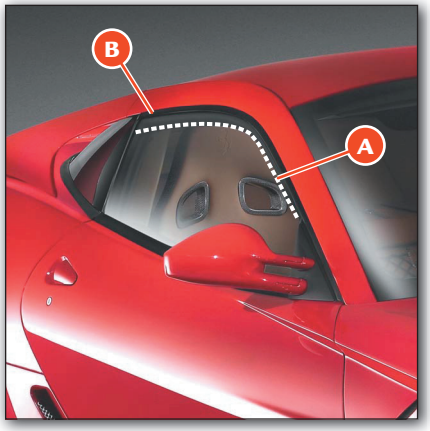
Using the remote control, deactivate the alarm and the central door locking system, or turn the key in the lock to deactivate the central door locking system.

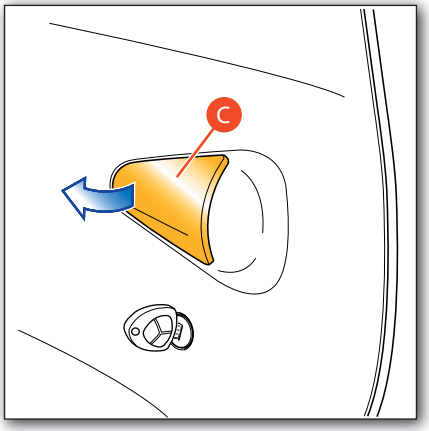
When pulling the handle **C** to open the door, the window moves down by approximately 2 centimetres. When the door is closed, it will move back up until it meets the upper weather strip.

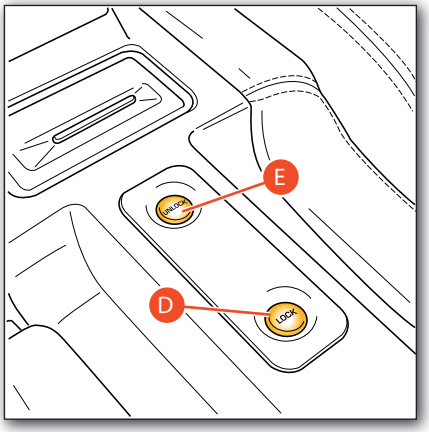
Locking and opening the doors from the inside

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

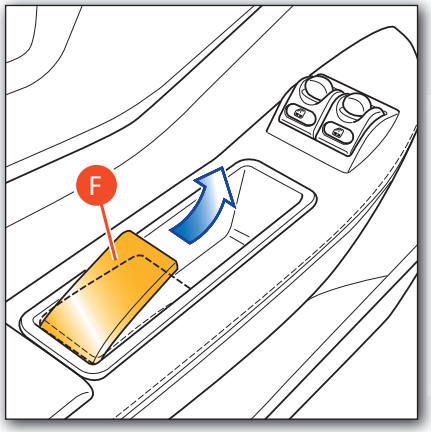
WARNING Always check that the doors are properly closed to prevent them from opening while driving.







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"*.

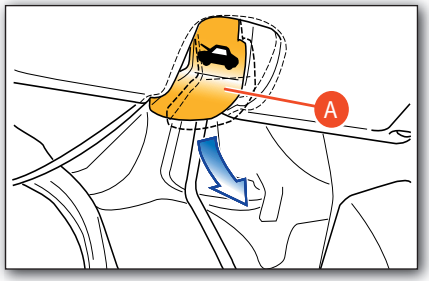
If the handle **F** is pulled without opening the door, the window will lower to the *"preset position"* but, after 2 seconds, if the door is not opened, the window will rise to the *"upper weather strip"*.

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

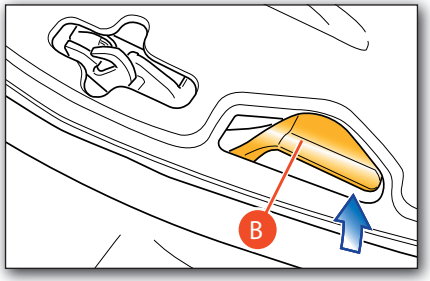
Engine compartment lid

Opening

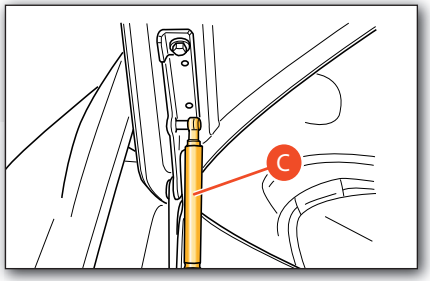
To unlock the engine compartment lid, pull the lever **A** found beneath the steering column.



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



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



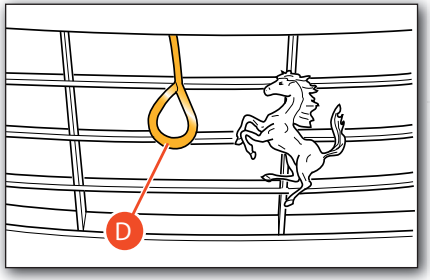
Closing

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

WARNING 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 cap from its seat. Grip the ring **D** with your fingers and pull it outwards.

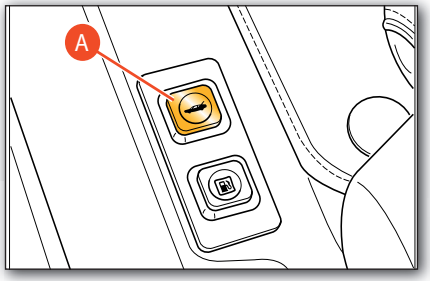


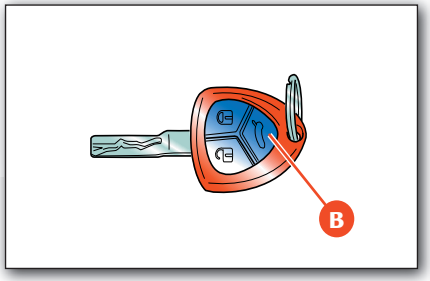
Luggage compartment lid

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.





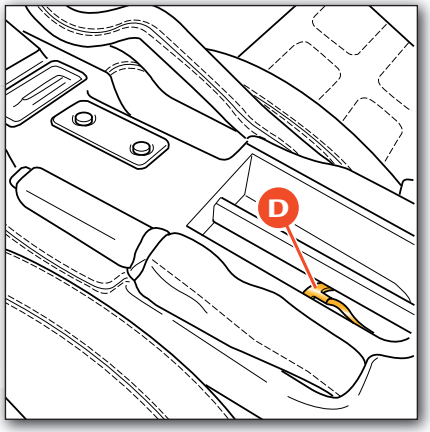
Closing

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 centre console, and pull the ring **D** of the safety cable.



Fuel tank cap and door

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

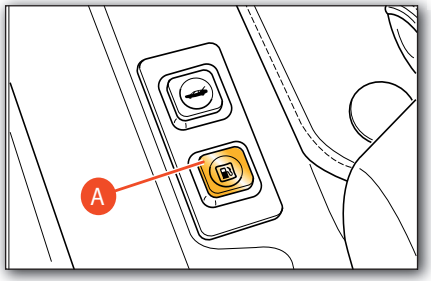
Do not smoke or use open flames during refuelling.

The following can be harmful for your health:

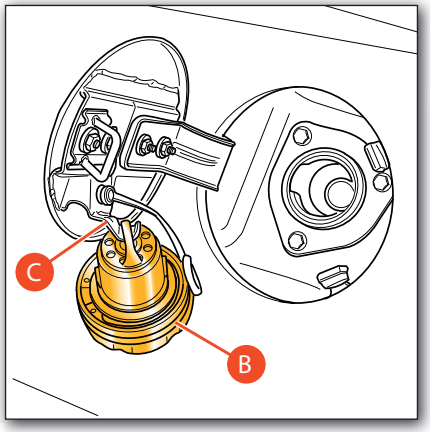
- fuel coming into contact with your skin
- inhaling fuel vapours.

Opening

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



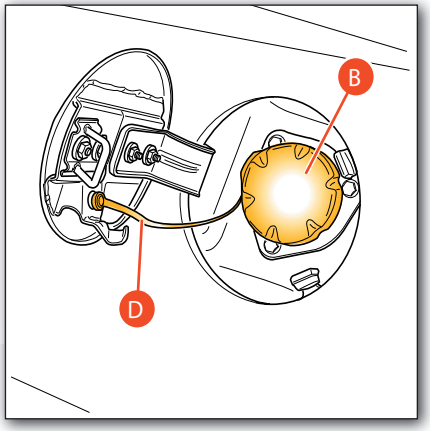
Unscrew the cap **B**, rotating it anticlockwise and hang it on the hook **C**.



Closing

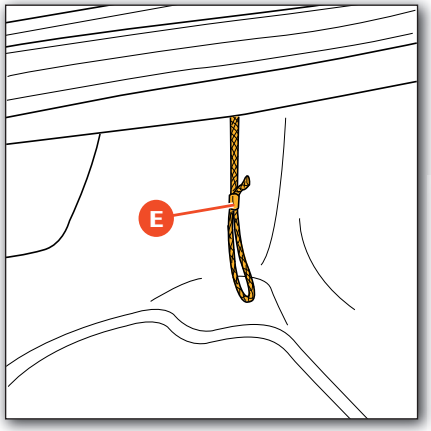
Screw the cap **B** back on tightly and close the fuel tank door.

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



Emergency opening

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



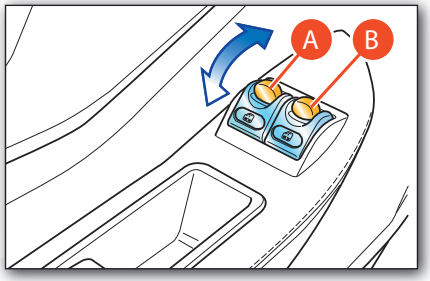
Power windows

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).

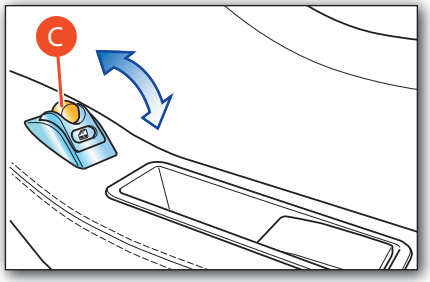
Press button **A** briefly, to activate manual operation. Hold the button down for a longer time (more than 0.3 seconds) or press it a second time to activate automatic operation, so that the window stops when it reaches the end of its travel.



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 hitting the upper weather strip when it 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.

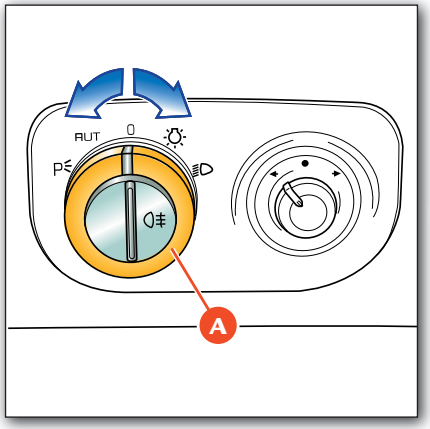
To protect the passengers remaining in the car against accidental operation of the power windows, always remove the key from the ignition.

Lighting

The exterior lights and the direction indicators only work when the ignition key is in position **II**.

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

Light switch



Switch **A** has five positions:

0 Lights off

Position and number plate lights on (*)

Low beams on (*)

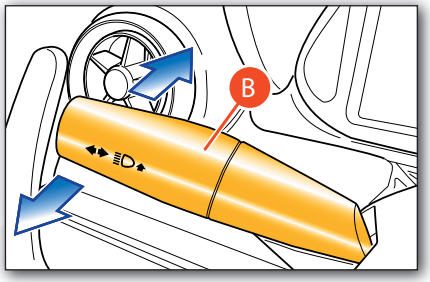
Parking lights

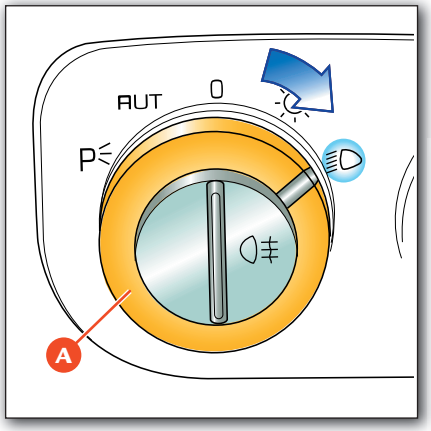
AUT Automatic operation of the external lights according to the ambient light.

(*) The relative warning light on the instrument panel comes on (see page 77);

High beams

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





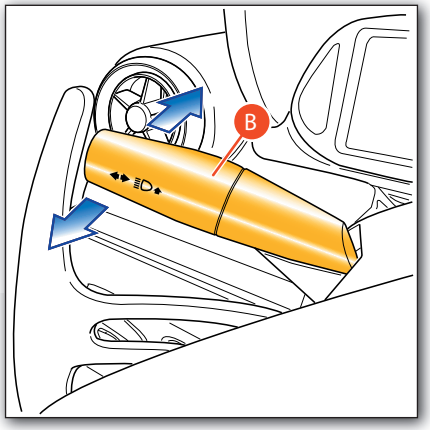
When the high beams are on, the relative warning light illuminates on the instrument panel (see page 77).

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 travelling 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 at position **II**.

The high beams are used for flashing.

Follow the Road Regulations of the country you are travelling 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 **B** to position .

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 number plate lights turn on and off according to the ambient light.

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

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

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.

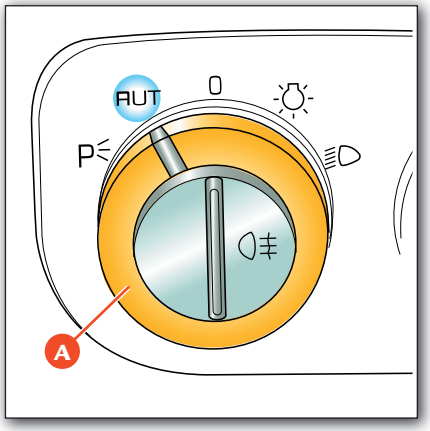
After automatic activation of the external lights, it will always be possible to turn on the rear fog lights manually. When the external lights are deactivated automatically, also the rear fog lights are turned off (if active) automatically. Therefore, if necessary, the user will have to turn on the 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 position lights independently of the ambient light. The failure message will appear on the instrument panel display.



The failure indication will be displayed as long as the 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.

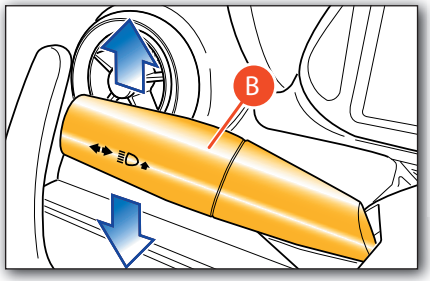
Contact the Ferrari Service Network as soon as possible.

Direction indicators

When lever **B** is:

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

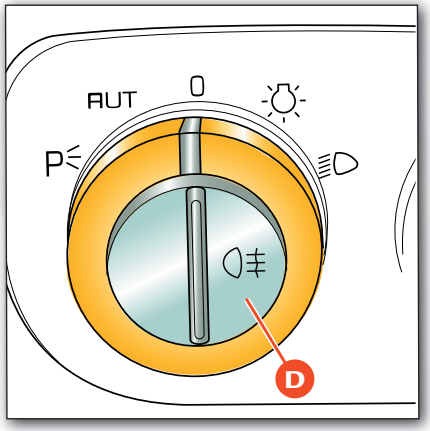
The relative warning light will illuminate on the instrument panel ⇦⇨.

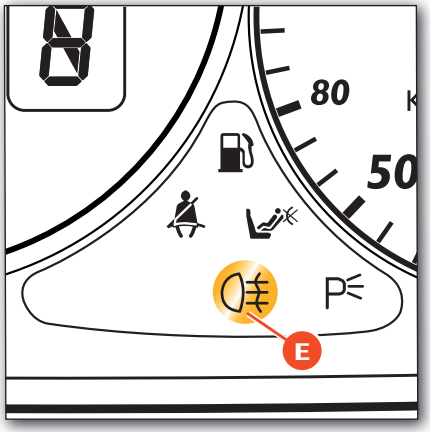


The lever returns to the neutral position automatically when the steering wheel is straightened.

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





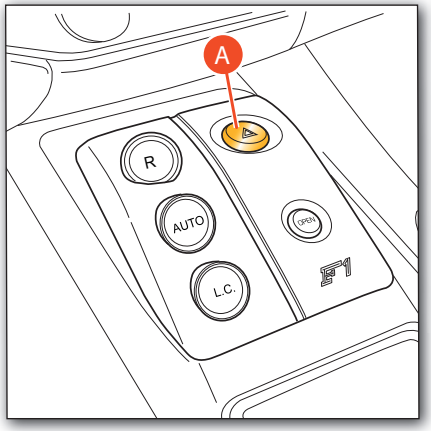
These can be activated only when the high or low beams are on, by pressing button **D**. The relative warning light **E** on the instrument panel will turn on.

Use the rear fog lights only in poor visibility conditions.

Hazard warning lights

Press button **A** to turn on the hazard warning lights. All the 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 flash.

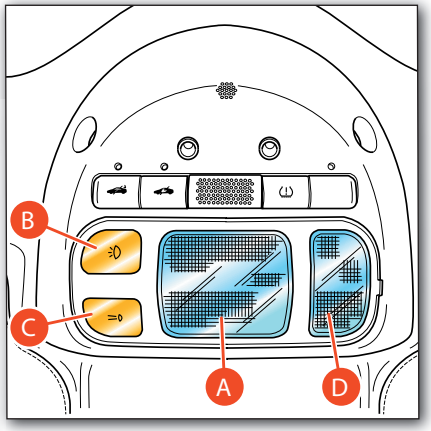


To turn them off, press the button again.

Dome light

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

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



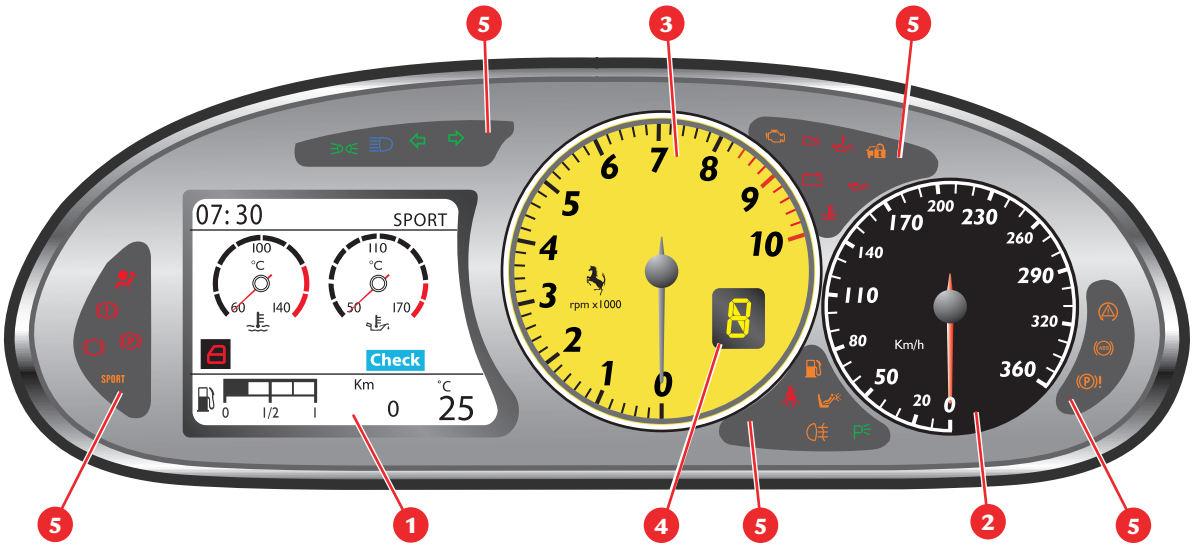
The dome light activates automatically in the following conditions:

- 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 Rev. Counter
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 icon)

B display of virtual control gauges and of information generated by specific events and/or on request

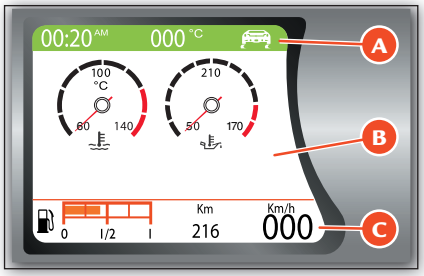
C permanent display of information (shared by all configurations).

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 colour options:

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

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

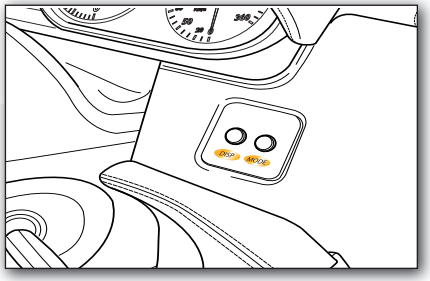


The screen page is activated and set by pressing the buttons **DISP** and **MODE** on the control panel, to the right of the steering wheel, and by pressing the buttons **UP**, **DOWN** and **ENTER** located behind the steering wheel.

MODE

Button pressed momentarily (< 2 sec):

- the "complete" **MENU** page is displayed if the vehicle speed is below 5 km/h – 3 mph
- the "minimised" **MENU** page is displayed if the vehicle speed exceeds 5 km/h – 3 mph
- 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 iconised if the button is pressed during fault warnings.



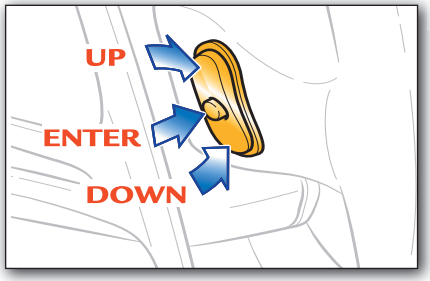
Button pressed at length (> 2 sec):

- **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 screen displayed before **MODE** button was pressed.

DISP (DISPLAY)

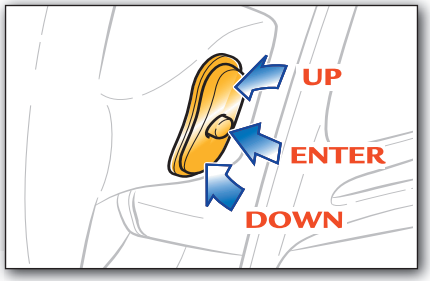
Scrolls through the following screen pages:

- **SPORT**
- **RACE**
- **TRIP A**
- **TRIP B**
- **TYRES**



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** distance
  - **TRIP B** distance (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:

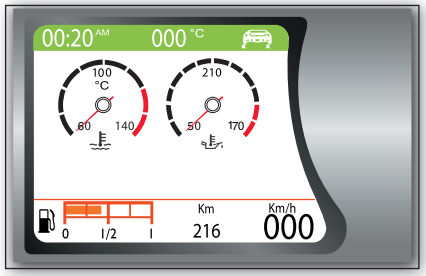
The display **B** can have the following configurations, which are selected using the **DISP** button (the screen page recalled is active for ten seconds) or, from the **MENU** page, using the **MODE** button (the screen page recalled remains displayed as the main screen page):

- **SPORT**
- **RACE**
- **TRIP A**
- **TRIP B**
- **TYRES**

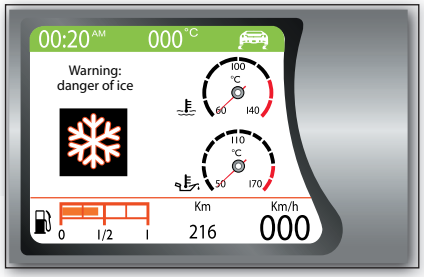
SPORT

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

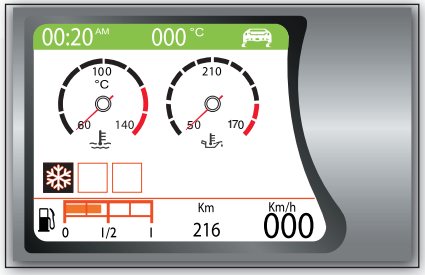
- water temperature;
- oil temperature.



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.



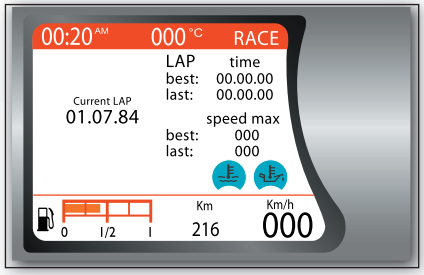
In case of malfunctions/events which need to be displayed through a multi-function symbol, this will be viewed, at the end of the display cycle, in one of the three dedicated sections of area **B**.



RACE

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

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



The minimised virtual control gauges are displayed with no index or graduated scale. They are displayed as black symbols on a background which can have different colours (blue, green, red) according to the temperature range.

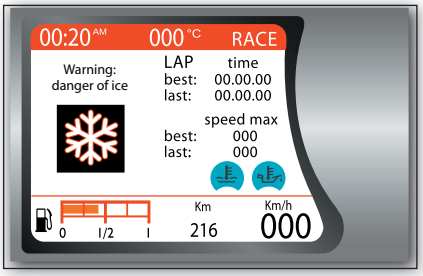
Oil temperature gauge:

- Blue = Oil T < 80 °C (176 °F)
- Green = 80 °C < Oil T < 155 °C
- Red = Oil T > 155 °C (311 °F).

Water temperature gauge:

- Blue = Water T < 70 °C (158 °F)
- Green = 70 °C < Water T < 125 °C
- Red = Water T > 125 °C (257 °F).

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:

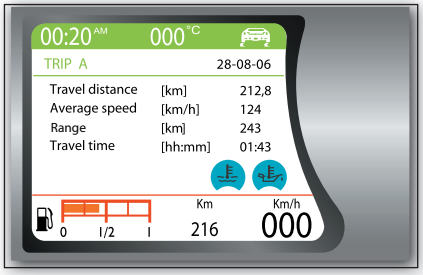
- stops the chronometer and updates the information on the previous laps (button pressed briefly)
- resets the chronometer and updates the information about the previous laps (button pressed briefly).

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

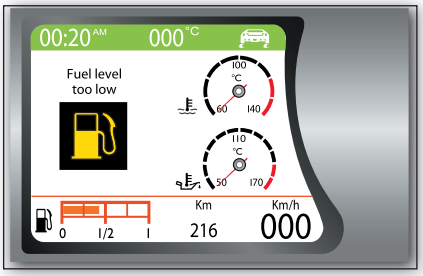
In addition to the shared parameters, the screen page shows:

- the virtual water and oil temperature gauges (minimised)
- 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.

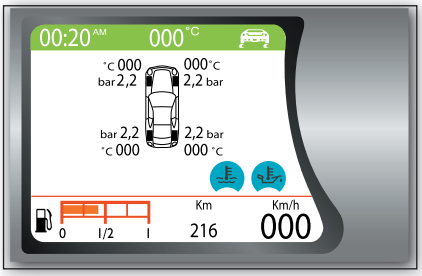


In case of malfunctions/events which need to be displayed through a multi-function symbol, they will be viewed, at the end of the display cycle, in one of the three dedicated sections of area **B**.

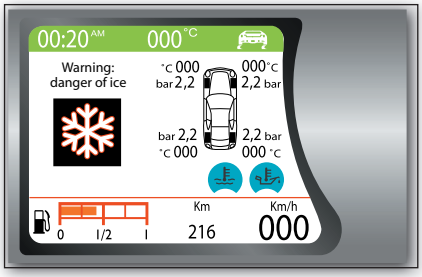
TYRES

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

- the virtual water and oil temperature gauges (minimised)
- the vehicle symbol with the pressure and temperature values for each tyre
- the multi-function symbol for malfunctions (if any).

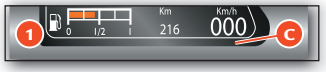


When the **TYRES** screen page is displayed and an event occurs that needs to be viewed, the display will appear as in the following example.



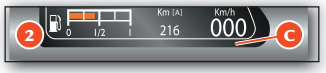
For further information, please see the "Tyre Pressure and Temperature Monitoring System" in the "Safety" section.

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 briefly 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.

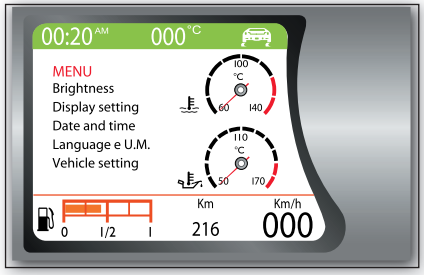
The information is displayed in area **C**, if the speedometer display is disabled. In this case, the word "Manettino" will be displayed in area **A**.

Driving mode icon

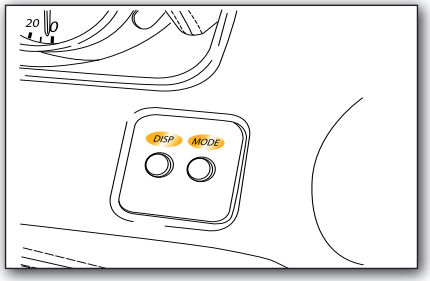
The information is permanently displayed in area **A**.

Configuration settings:

Menu Page



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



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**, **TYRES**, **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 volume
- Light sensor
- Glove compartment button
- RPM rep. on the steering wheel
- Equaliser.

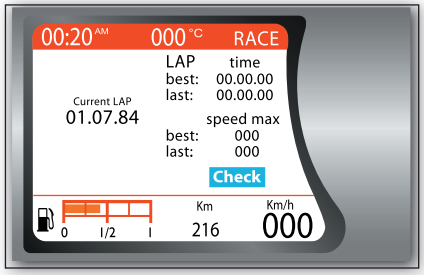
To select the parameters, press the **UP** and **DOWN** buttons. To confirm the selected parameter, press **ENTER**.

Service

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

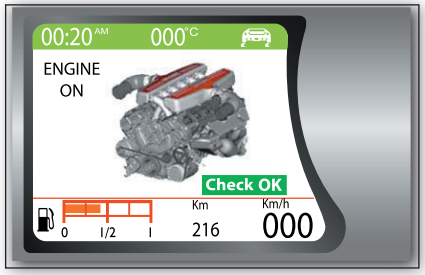
Displayed information upon key-on

When the key is turned to ON, the check procedure is started and the message "**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 (minimised) 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 middle of area **B** and is then minimised. It remains displayed (minimised) 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 the Ferrari Service Network.

Fuel reserve

Indicates that the fuel level is too 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-out of the fuel supply (priority level 0).

Alternator

Indicates an alternator failure (priority level **1**).

Low windscreen washer fluid level

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

Oil temperature

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

Oil pressure

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

Turn off the engine and contact the Ferrari Service Network.

Engine coolant temperature

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

Turn off the engine and contact the Ferrari Service Network.

On board diagnostic system (EOBD)

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

Generic failure

Indicates a generic failure (priority level 0).

Lights failure

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

Number plate lights failure

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

Twilight sensor failure

Indicates a twilight sensor failure (priority level 2).

Catalytic converter temperature

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

Indicates that the catalytic converter temperature is too high: stop the vehicle and turn off the engine so that the exhaust system cools down (see page 142). After approximately 5 minutes, restart the engine and continue driving normally (priority level 0).

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

Stop lights failure

Indicates a system failure or blowing 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)

Power steering failure

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

Contact the Ferrari Service Network.

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

Contact the Ferrari Service Network.

Doors and 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 the Ferrari Service Network.

EBD

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

It is displayed together with the ABS warning light.

ASR + CST on

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

ASR + CST off

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

This is displayed together with the message CST off.

ASR/CST failure

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

Stop the vehicle avoiding sharp braking. Do not drive further and contact the Ferrari Service Network immediately.

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

CCM brake discs worn

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

Contact the Ferrari Service Network to have the brake pads replaced.

ASR/CST system activation

Indicates that the CST system has activated (priority level **1**).

Tyre pressure

Warning light connected with the tyre pressure monitoring system.

Airbag system failure

Indicates a system failure (priority level 0).

Contact the Ferrari Service Network.

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

Passenger-side seat belt not fastened

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

Speed limit exceeded

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

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 the Ferrari Service Network.

Manettino failure

Indicates a Manettino failure (priority level 1).

Parking sensor failure

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

Ice hazard

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

Drive carefully and slow down as the grip of the tyres is markedly reduced.

In this condition, do not activate “SPORT” mode.

Gearbox failure

Indicates a system failure (priority level 1).

Contact the Ferrari Service Network.

Scheduled maintenance

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

Contact the Ferrari Service Network 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” Handbook guide for the car radio system.

Flashcard information

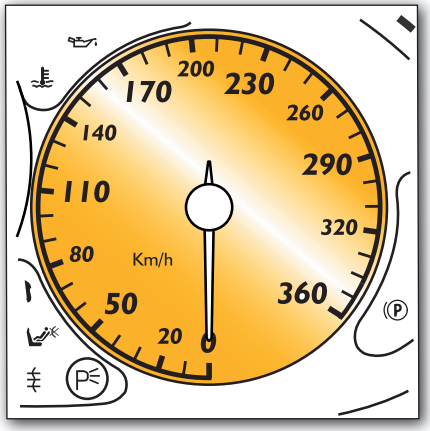
See the “Quick reference” guide for the car radio system.

Telephone

See the “Quick reference” guide for the car radio system.

Electronic speedometer

It indicates the vehicle speed.



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

Rev. Counter

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 revolution counter. 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 the Ferrari Service Network 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 TFT display warning light

If a warning light indicating a failure comes on while driving, contact the Ferrari Service Network 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 the Ferrari Service Network.

Brake failure (x)

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

Stop the vehicle avoiding sharp braking. Do not drive further, check the fluid level in the tank and immediately contact the Ferrari Service Network.

ASR/CST failure (x)

Indicates an ASR/CST system failure.

Stop the vehicle avoiding sharp braking. Do not drive further and immediately contact the Ferrari Service Network.

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

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

When the warning lights in the figure turn on simultaneously.

Danger of rear wheels locking and risk of spinning.

Stop the vehicle avoiding sharp braking. Do not drive further and immediately contact the Ferrari Service Network.

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

Handbrake

When the handbrake is operated.

Alternator failure (x)

If the recharging system is faulty.

When the battery is insufficiently charged or overcharged (flashing).

Brake pad wear (x)

Indicates that the brake pads are worn.

Contact the Ferrari Service Network to have the brake pads replaced.

Oil pressure (x)

Indicates that the engine oil temperature is too low.

Turn off the engine immediately and contact the Ferrari Service Network.

Indicates a malfunction of the specific sensor.

Oil temperature (x)

Indicates that the engine oil temperature is too high.

Turn off the engine immediately and contact the Ferrari Service Network.

Indicates a malfunction of the specific sensor.

Engine coolant temperature (x)

Indicates that the engine coolant temperature is too high.

Turn off the engine immediately and contact the Ferrari Service Network.

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 come on for the self-check cycle or if it comes on while driving, contact the Ferrari Service Network 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, free the road and contact the Ferrari Service Network.

- Flashing: low system pressure.

Seat belt

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

On-board diagnostic system (EOBD) (x)

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

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

Fuel reserve (x)

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

Direction indicator

When the direction lights are activated.

When the hazard warning 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 the Ferrari Service Network.

ASR + CST off

Indicates that the ASR and CST systems are deactivated.

Passenger-side airbag manual deactivation

It comes on to indicate that the passenger-side airbag was deactivated by means of the specific key-operated control.

Tyre pressure and temperature monitoring system

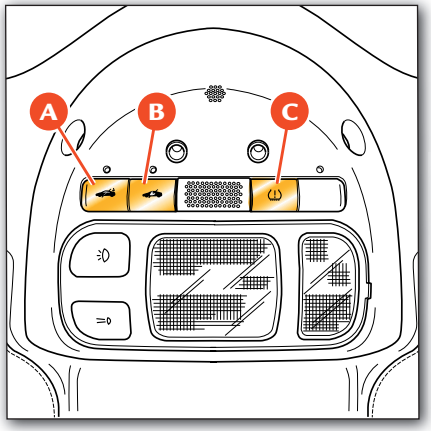
Works in conjunction with the tyre pressure and temperature monitoring system (see page 58).

Roof panel controls

Deactivating the alarm system motion sensors

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

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



Deactivating the anti-lift alarm system

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

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

Tyre pressure calibration button

To calibrate the system, when the key is in position **II**, press button **C** until the message “calibrazione attivata” (calibration started) 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 “Tyre pressure and temperature monitoring system” (see page 40).

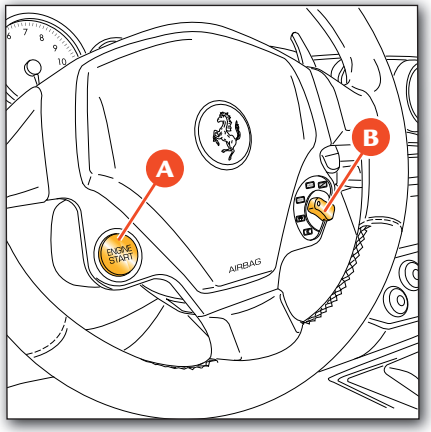
Controls on the steering wheel

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 84.



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, signalled by the warning light on the instrument panel display (see page 73), the switch moves to a "recovery" position, allowing the vehicle to still be driven. In these cases, contact the Ferrari Service Network.

"ICE" mode

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

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

For use, see on page 100.

"LOW GRIP" mode

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

For use, see on page 100.

SPORT mode

This is the ideal setting for vehicle performance.

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

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

For use, see on page 100.

RACE mode

RACE mode further enhances the racing style performance of the vehicle. Activation will be signalled 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 101.

Deactivating the CST system (CST)

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

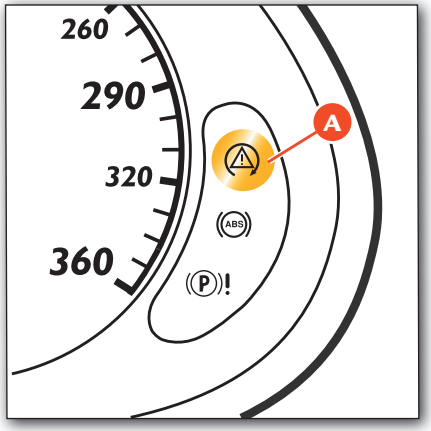
Deactivation of this mode will be signalled by the warning light **A** on the instrument panel and by the ASR/CST failure warning light with the message "CST off " appearing on the TFT display for 5 seconds. In addition, CST deactivation will cause the **RACE** symbol to be displayed in the dedicated 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 **B** 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 the Ferrari Service Network.

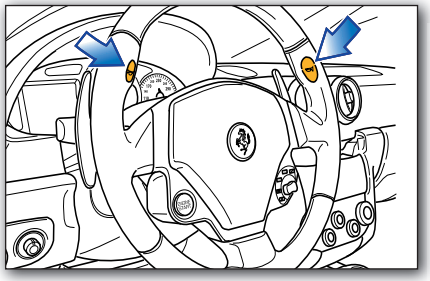
Every time the engine is then started, the **CST** system will reactivate.

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

For use, see on page 101.

Horn control

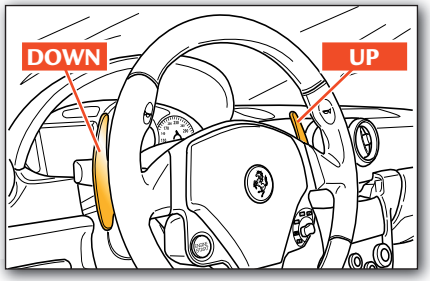
Press the sides of the upper spokes on either side of the steering wheel, in position with the horn symbol, to activate the horn.



"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 84.



"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 84.

Windscreen washer/wipers and headlight washer

Windscreen wipers

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

The lever **A** has 5 settings:

OFF Windscreen wipers stationary.

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

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

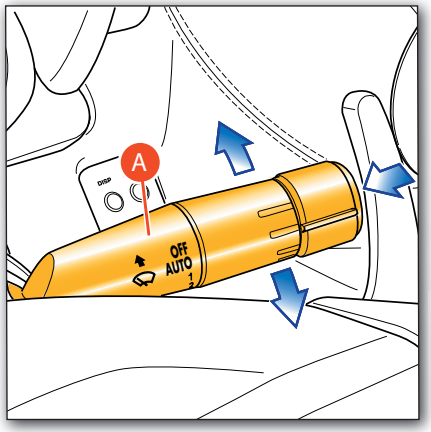
2 Fast continuous operation (lever pushed down to third click position).

Lever up Fast temporary operation (automatic return).

Windscreen washer

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

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



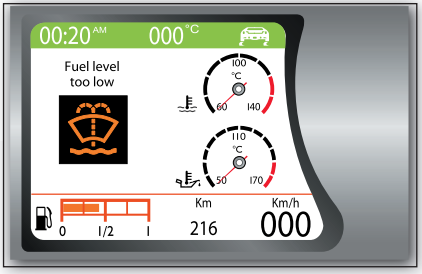
Releasing the lever stops the jet of fluid while the blades continue to wipe for a short time.

Do not start the windscreen washer during the cold months until the windscreen 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 windscreen washer is operated and the low beams are on.

The headlight washer and windscreen washer share the same fluid tank, and a low fluid level is indicated by the relative warning light on the TFT display.



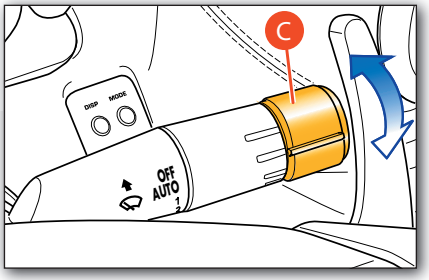
Rain sensor

The rain sensor automatically adjusts the windscreen 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 windscreen 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 windscreen (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 windscreen, 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 windscreen or not. In this case, we recommend that you deactivate the rain sensor and turn on the wipers, if necessary, in continuous mode.

Contact the Ferrari Service Network 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 movable parts need to be run-in, basically during the first hours of operation.

Engine and transmission

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

After starting, do not exceed 4000 RPM until the engine has warmed up (oil temperature: 65÷70 °C – 149÷158 °F).

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 (centre and sides).

Before a trip

Preliminary checks

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

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

In any case, it is advisable to perform these checks at least every 1000 km (620 mi.), 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.

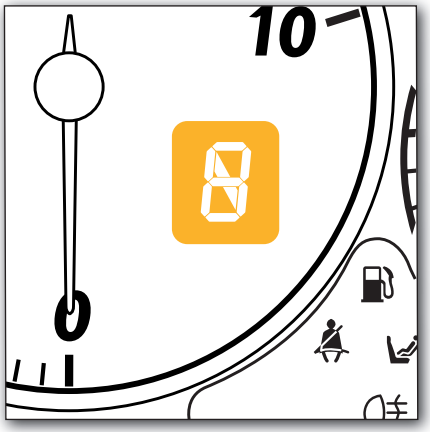
For specifications and quantities of lubricants and fluids, follow the information reported in the "Recommended lubricants and fluids" table on page 25.

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 turn on. The warning light will turn off if no problems are detected within a few seconds.

The gear currently engaged will remain highlighted on the display.



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

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

If the failure warning light continues flashing without going off, deactivate the system and restart it. If the failure persists, contact the Ferrari Service Network to have the necessary checks performed.

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

Contact the Ferrari Service Network to have the malfunction identified and repaired.

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 90).

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 centre console.

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

N (Neutral)

R (Reverse gear)

1 (1st gear)

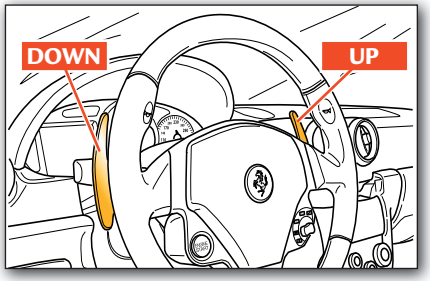
2 (2nd gear), etc.

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.

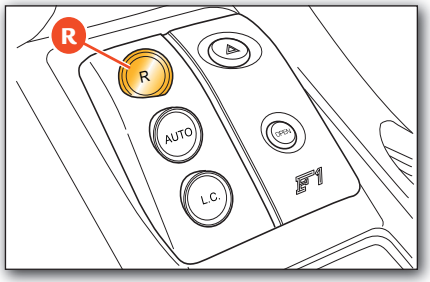
When the engine is off, **1st** gear, reverse gear **R** and neutral **N** can be engaged. Holding the brake pedal depressed during the request, proceed as follows:

N: pull both the levers located behind the steering wheel.



R: press button **R** on the centre 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 73) and the acoustic alarm.

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

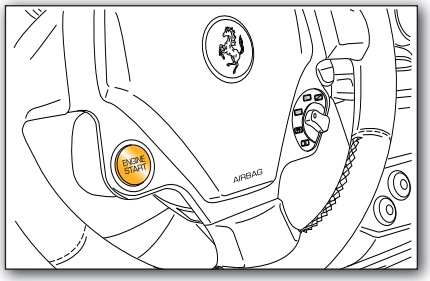
Also avoid unnecessary gearshifting when the engine is off, in order to prevent the system pump from overheating.

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.



- 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 (flat 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 65÷70 °C (149–158 °F), approximately.

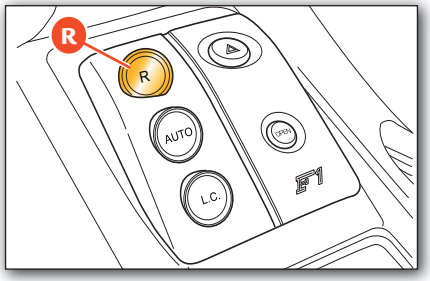
Driving the vehicle (F1 gearbox)

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



With the engine on and the vehicle stationary, you can shift directly from **1st** to **R** by pressing button R on the centre 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.

WARNING 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" manoeuvre.

In these cases, you must release the accelerator pedal and only use the brake pedal to keep the vehicle stationary or, where possible, start off immediately.

Important

- When the vehicle is stationary with a gear engaged, always hold the brake pedal pressed until you are ready to move.
- Do not "rev the engine" using the accelerator pedal to start off.
- Shift to reverse only when the vehicle has come to a complete stop and keeping the brake pedal depressed.

If the vehicle is stopped on an uphill stretch, do not use the accelerator pedal to keep it stationary. Use the brake and press the accelerator pedal only when ready to move.

If the accelerator pedal is fully depressed very quickly when the **CST** system is off, the vehicle will have a "performance" start with 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 pressed 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 speed rate, set at 1250 RPM.
- The **DOWN-shift** request from the lever is ignored if gearshifting due to a too low engine RPM 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.

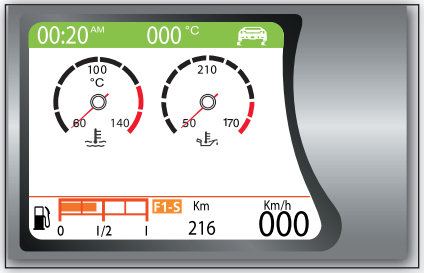
The different gearshifting stages (torque reduction and clutch disengagement, gear disengagement and engagement and subsequent clutch re-engagement) are actuated in sequence.

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:

- driving mode switch set to **SPORT**, **RACE** or **CST OFF**
- engine at > 5000 RPM and accelerator pedal at > 80%
- lateral acceleration < 0.9 g
- no traction control
- engine water temperature > 70 °C and engine oil temperature > 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:

- driving mode switch set to **ICE** or **LOW GRIP**
- engine at < 5000 RPM and accelerator pedal at < 80%
- lateral acceleration > 0.9 g
- marked skidding of the rear wheels
- traction control activated
- engine water temperature < 70 °C and engine oil temperature < 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 come on (see page 76) 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:

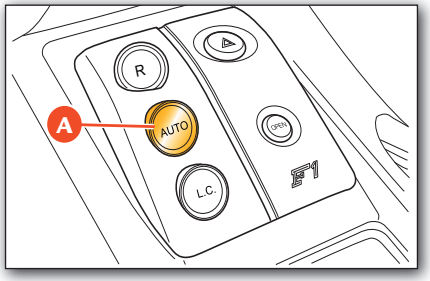
- turn off the engine and the system, holding the brake pedal depressed
- do not request a gearshift while the system is turning off.

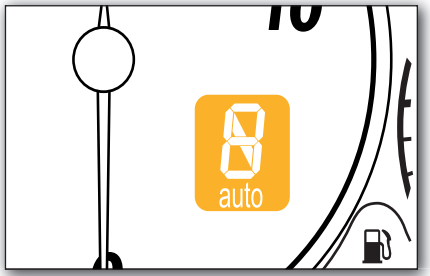
Other system functions (F1 gearbox)

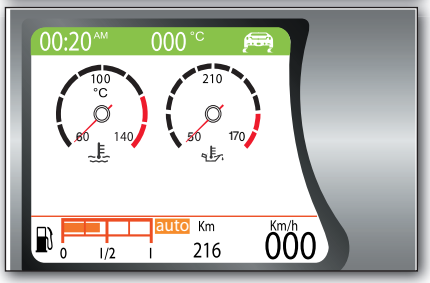
"Automatic gearshift" mode

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

Activation is signalled by the script AUTO on the gear display 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**, **1**st gear or **R**, the system will not shift from "Automatic" to "Manual".

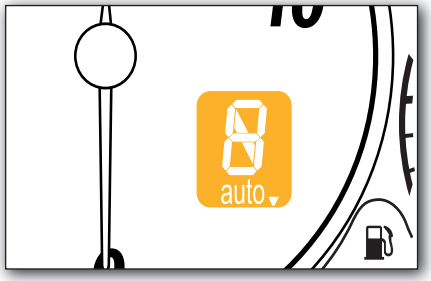
The "Automatic" mode can only be exited by operating the **AUTO** **A** control button.

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 go 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 signalled 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" gearshifting features.

"Launch Control" strategy for performance starting

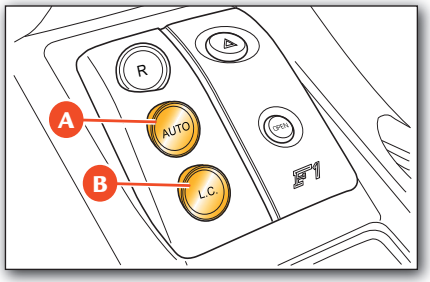
Use Launch Control only on a closed loop race track.

IN ADDITION, Launch Control must only be used if the driver is thoroughly acquainted with the vehicle and has full control over it. Control and knowledge of the vehicle can only be achieved by attending the driving courses organised and held by Ferrari.

When the Launch Control strategy is used, the CST system is temporarily deactivated.

With the aim of optimising standing starts for sports-style driving, the F1 gearbox system is equipped with the "launch control" strategy. This strategy is activated when the following conditions occur simultaneously:

- **1st** gear engaged
- brake pedal depressed
- mode active
- **L.C.** button **B** pressed



In these conditions, the letter **L** will flash on the gear display. The driver can accelerate holding the brake pedal down and the vehicle stationary, until the

desired RPM for the standing start is reached (typically the maximum torque RPM). On releasing the brake pedal, the best standing start performance is achieved thanks to a clutch engagement strategy optimised for that RPM.

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 84);
- as the vehicle is gaining speed, request an **UP-shift** with the gearshift in **N**.

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

Restarting the engine (F1)

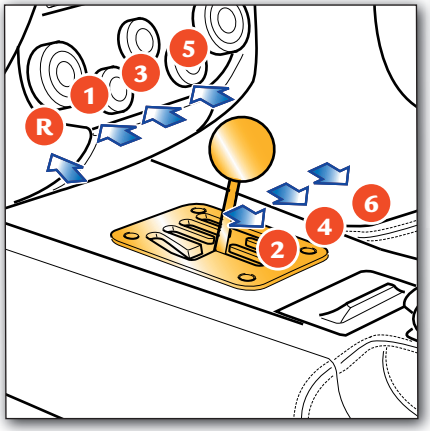
In the event that the engine is turned off accidentally, restart it using the **ENGINE START** button, turning the key to 0 and then to **II**: the engine will start immediately.

Starting and driving the vehicle (F1 gearbox)

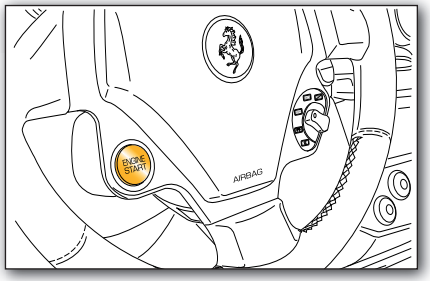
Starting the engine

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 key to position **II** and wait until the words **Check in corso** (Check in progress) appear on the multi-function display.
- 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 **Check OK** will be displayed. If the words **Check OK** do not appear, turn the key back to position 0, wait a few seconds and repeat the procedure.

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 65÷70 °C – 149÷158 °F.

Driving the vehicle (F1 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 revolution counter 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 backward.

While driving (Mechanical Gearbox)

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

When the revolution counter 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 stabilise 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 few braking attempts, the system will become totally 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 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 or rock to block the wheels.
Never leave the ignition key in position **II**.

Always remove the key when getting out of the vehicle.

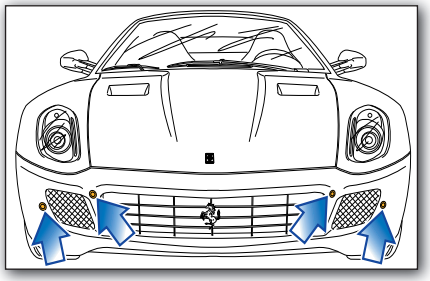
Never leave children unattended in the vehicle.

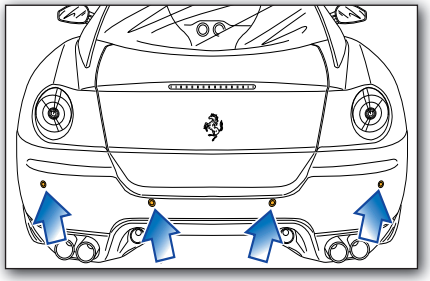
Do not park the vehicle on flammable materials (e.g., paper, grass, dry leaves, etc.). They could catch fire if they come into contact with hot parts of the exhaust system.

Do not leave the engine running with the vehicle unattended.

Parking manoeuvre

To assist the driver during parking manoeuvres, the vehicle can come equipped with four 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” Owner’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 manoeuvres.

However, the driver remains fully responsible for parking manoeuvres and in other potentially dangerous situations. The system has been designed only as a supplementary aid during parking manoeuvres, 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 manoeuvres.

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 centre 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 35 cm (13.8 in.), 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" Owner'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 10 cm (4 in.) 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 the Ferrari Service Network. Incorrect painting/touch-ups could jeopardise 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.

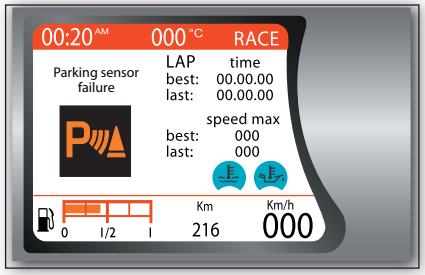
In the event of an obstacle located in a mid area, this will be detected at distances of less than 1.40 m (55 in.), depending on the type of obstacle and its dimensions.

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

Failure signals

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

A parking sensor system failure will be signalled 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 the Ferrari Service Network to have the system checked.

During parking manoeuvres, 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.

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

Safe driving

For safe 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. Ensure that nothing (e.g., floor mats, etc.) is blocking the pedals.
- Check that the lights and headlights are working properly.
- Ensure that any child restraint systems (e.g., child seats, cradles 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 drinks before and during the journey.

At regular intervals, check the following:

- Tyre pressure and condition.
- Engine oil level.
- Engine coolant level and system condition.
- Brake fluid level.
- Steering fluid level.
- Windscreen washer fluid level.

When travelling

- Caution is the number one rule for safe driving, which also means you should take other people's behaviour 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 travelling in suitable child seats.
- Good personal physical conditions ensure you can drive long distances safely.

WARNING

Drunk driving, or driving under the influence of drugs or certain medicines is extremely dangerous for yourself and others.

Travelling 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 loose floor mats sit 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 travelling 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 travelling outside urban areas.

Driving in the rain

Rain and wet roads can cause hazardous situations.

All manoeuvres are more difficult on a wet road, as the tyres 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. Travelling 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 tyre 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 tyre 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 tyre. 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 windscreen (see page 107) and to avoid visibility problems.
- Periodically check the condition of the windscreen wiper blades.

Driving in fog

Whenever possible, avoid setting off 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 light. Avoid using the high beams.

On stretches where visibility is good, turn off the rear fog light, as it is very bright and may be annoying for the occupants of the vehicles behind you.

- Remember that fog makes the road damp and therefore all manoeuvres are more difficult and braking distances are longer.
- Keep a safe distance from the vehicle in front of you.
- As far as possible, avoid suddenly changing speed and direction.
- As far as possible, avoid overtaking.
- In the event of an emergency stop, (e.g., failures, inability to proceed due to poor visibility conditions, etc.) try to leave the main driving lane. Then turn on the hazard warning lights and, if possible, the low beams. On approaching another vehicle, sound the horn rhythmically.

Driving on mountain roads

Below is some advice for driving on steep mountain roads:

- To prevent the brakes from overheating when driving downhill, use the engine to brake by engaging a lower gear.
- Never coast downhill or drive downhill with the engine off or in neutral, nor with the ignition key removed from the steering column.
- Drive at a moderate speeds and do not “cut” corners.
- Remember that overtaking uphill is slower and requires a longer free stretch of road. If you are overtaken when driving uphill, ensure that the other vehicle can pass easily.

Driving on snowy or icy roads

Below is some advice for driving in these conditions:

- Keep a very moderate speed.
- Keep a safe distance from the vehicles in front of you.
- Fit snow tyres 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

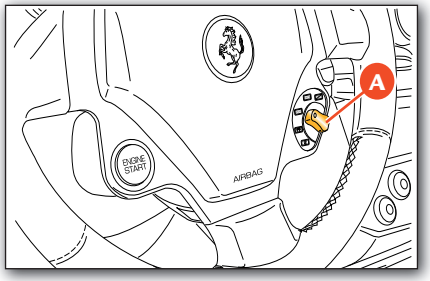
The ABS system assists the driver as follows:

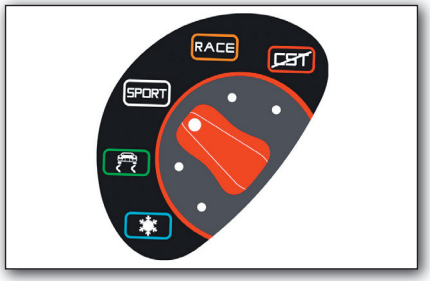
- It prevents the wheels from locking and skidding during emergency braking, particularly in low-grip conditions.
- It allows braking and changing direction at the same time. This feature is affected by the physical limits and lateral grip of the tyres.
- When the ABS is activated, you will feel a slight 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 prevents the wheels from locking, but it does not increase the physical limits of grip between the tyres and the road: keep a safe distance from the vehicles ahead and reduce speed before curves.

Driving using the driving mode control switch (Manettino)

The driving mode switch **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, maximum stability - which is essential for driving on roadways 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" behaviour. On vehicles equipped with F1 gearbox, gearshifting is automatic at high engine speeds, and wheel locking is inhibited in the event of downshifting on icy roadways.

Low Grip 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 optimised to enhance driving comfort and the **CST** system remains set to the previous level.

SPORT **SPORT** mode is the basic driving mode for the vehicle and provides the best compromise between stability and performance. This setting ensures stability only in medium-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 maximum 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 **RACE** mode must be used only on race tracks. 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.

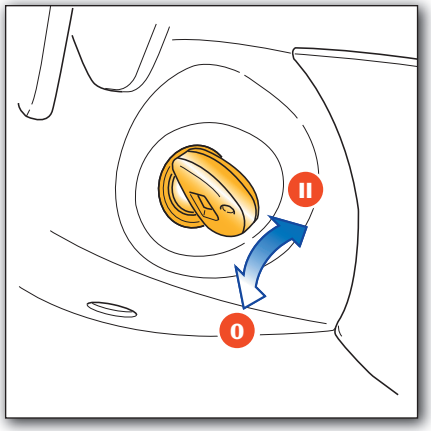
CST The **CST** is deactivated. Vehicle stability is no longer controlled, but is completely in the hands of the driver. The only aids that are still active are those that cannot be deactivated, such as the ABS and EBD. When the brake pedal is depressed, the **VDC** system is reactivated, while the **F1-Trac** 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.

WARNING Never remove the key when the vehicle is moving!

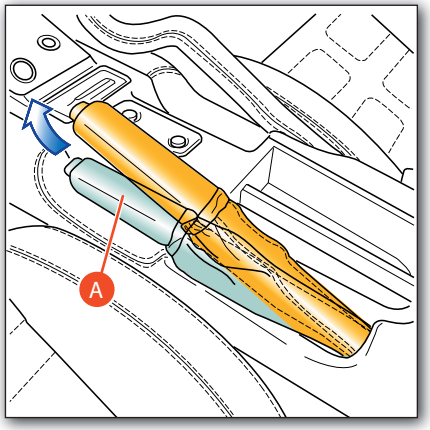
The steering wheel will lock automatically with the first turn of the steering wheel.

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

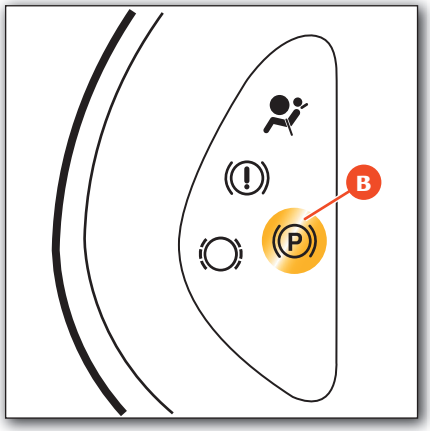
Never leave children unattended in the vehicle.

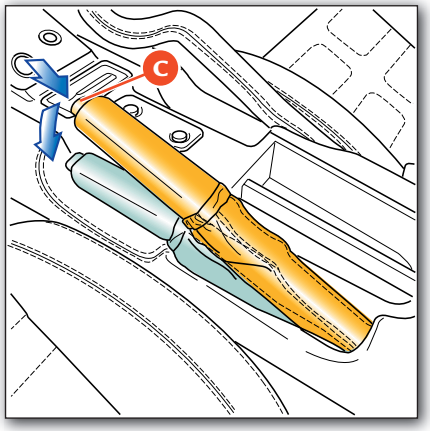
Handbrake lever

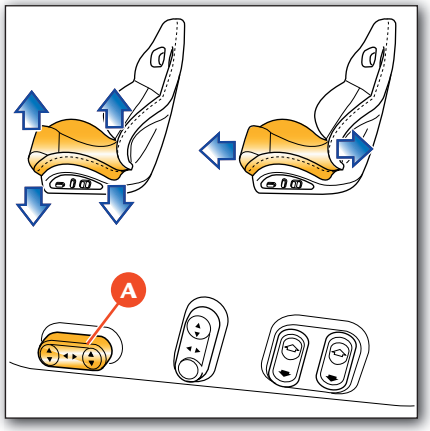
To engage the handbrake, pull the lever **A** fully upwards, until the rear wheels lock.



With the ignition key in position **II**, the warning light **B** comes on 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 the Ferrari Service Network.

Adjustments

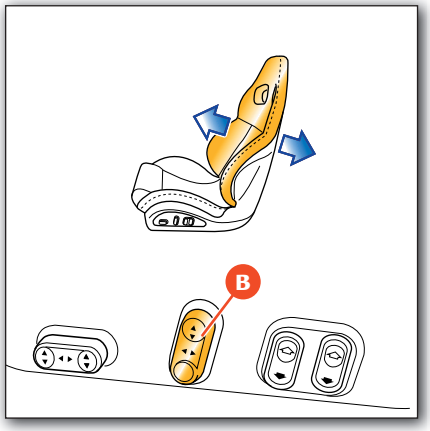
Seats

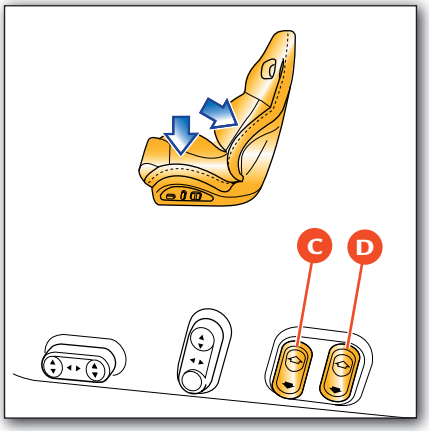
Never adjust the seat while driving: you may lose control of the vehicle.

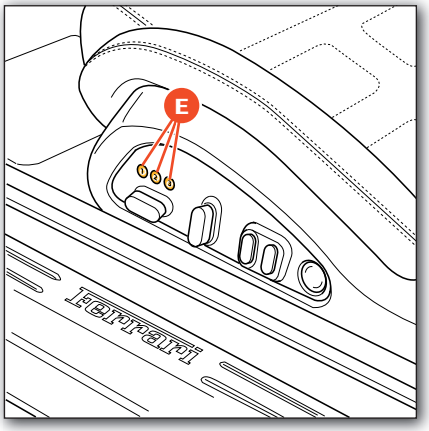
The seat position can be electrically adjusted using controls **A**, **B**, **C** and **D**.

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

- forward/backward adjustment: push the control forward or backward;
- 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 **B** to adjust the seat backrest inclination. Push the control forward or backward to adjust the seat backrest inclination.

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

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

Driver's seat position memory (optional)

This device allows you to memorise and recall three different seat positions.

You can memorise 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 memorisable position, until you hear a double confirmation tone.

The lumbar support adjustment will not be memorised with the seat position.

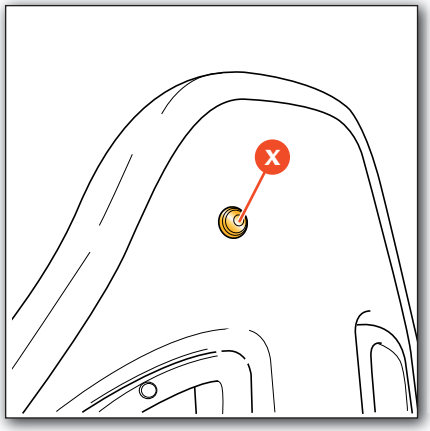
The memorisation of a new seat position cancels the one previously stored with the same button.

To recall one of the memorised positions when the door is open, press button 1, 2 or 3 **(E)** for about 3 seconds.

To recall the memorised position with the door closed, press the relative button until you hear the tone indicating that the seat has stopped.

Tipping the backrest

Press button **X** to tip the seat backrest forward.



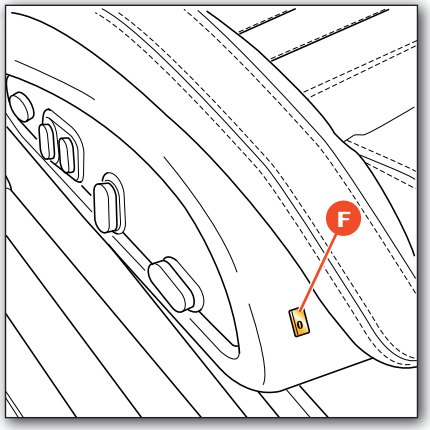
Press button **X** before returning the backrest to its original position.

Seat heating system (optional)

Turn control **F** to activate the seat heating function.

When this function is active for one or more seats, the relative warning light on the instrument panel illuminates.

Using control **F**, the driver can adjust the heating, choosing from 3 levels identified on the control with the numbers 1, 2 and 3.



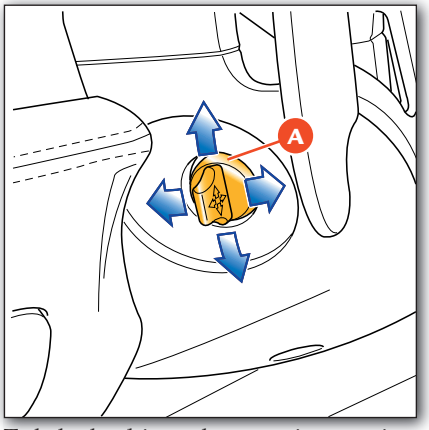
Adjusting the steering wheel

The steering wheel can be electrically adjusted, both in terms of height and depth. 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 memorised, together with the position of the external rear-view mirrors, when the driver's seat position is stored.

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



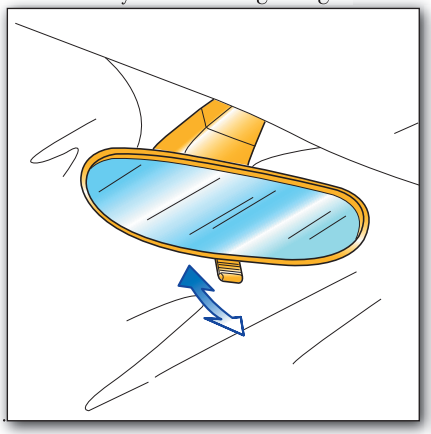
To help the driver when entering or exiting the vehicle, the steering wheel is lifted automatically.

Rear-view mirrors

Internal rear-view electrochromic mirror

This mirror can be adjusted manually.

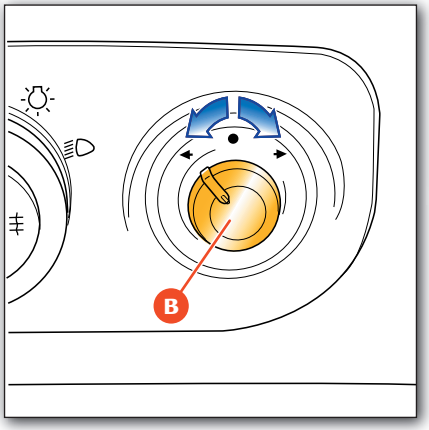
The electrochromic mirror automatically darkens to reduce the dazzling effect of the reflected light on the driver and increases safety when driving at night.



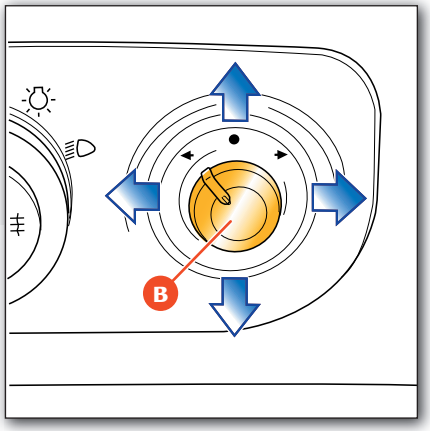
External rear-view mirrors

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

1) Mirror selection: Using the 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 memorised, the external rear view mirror position is also stored automatically, both for the normal travelling direction and for reverse manoeuvring.

To memorise 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 and reposition the external mirrors to ensure the best possible visibility to perform the manoeuvre, then disengage reverse gear.

Finally, press one of the buttons 1, 2 or 3 on the seat (see page 104), each one corresponding to a memorisable position, until a double tone confirms the procedure is complete.

The new position of the external rear-view mirrors will be automatically memorised together with the seat position.

In addition, the mirror positions can be adjusted for both the normal travelling direction and for reverse manoeuvring.

The mirrors must always be in the open position while driving.

Air conditioning and heating system

Operating modes

Automatic

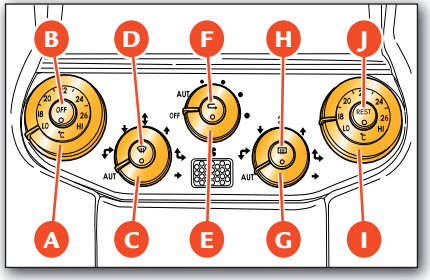
This mode automatically adjusts the air distribution, temperature and ventilation levels according to the temperature set by the user.

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 activation/deactivation
C Left-hand air distribution setting
D Windscreen 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

Deactivate the compressor by pressing button **B** and turning the (fan speed) control **E** to "**OFF**".

Air conditioning control switch B

Released (LED off)

The air conditioner is on.

The air is cooled and/or only dehumidified according to the temperature set.

Pressed (LED on)

The air conditioner is off.

However, heating is still enabled and will activate according to the temperature set.

Air 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) air temperature settings are activated at the opposite end positions.

Fan speed control E

It has three operating modes:

Automatic "AUT"

The air flow is controlled by the electronic system, according to the selected temperature to be reached and maintained.

Manual "OFF"

Turn the control to this position to turn off the air conditioning and to only allow air inlet from the outside when the vehicle is moving.

Fan speed

The four setting positions allow the occupants to select the air flow rate.

Residual heat function J

This function allows the user to maintain the temperature set for the passenger compartment for a specific time (15 minutes), even after the key has been turned to **0**.

To activate this function, press the "**REST**" before turning the key to **0**. The system will use the hot water recirculation pump and the first fan speed to maintain the temperature.

Air recirculation switch F

Released (LED off)

The air flow comes from the outside.

When outside temperatures exceed 32 °C – 90 °F, the air recirculation feature remains on with a 60-second pause every twenty minutes, to refresh the air.

If you activate the windscreen washer function, the air recirculation feature activates for 20 seconds, to prevent any smell of detergent products from entering the passenger compartment.

Pressed (LED on)

The air flow comes from inside the passenger compartment.

The recirculation increases air heating or cooling.

Prolonged use is not advisable.

Windscreen defogging/demisting switch D

Press this switch (LED on) to activate windscreen 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 stabilised at the desired level, you are advised not to change the position of the temperature selection switch unless the external temperature changes drastically.

The air coming out of the vents does not correspond to the temperature requested by the user, but is the temperature required to maintain the desired temperature inside the passenger compartment.

Adjusting the air vents

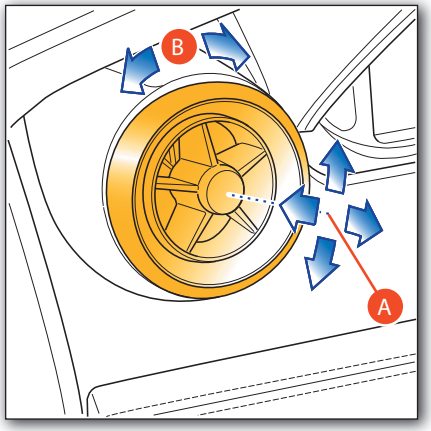
The adjustable air vents are positioned on the sides and in the central section of the dashboard.

Directing the air flow **A**.

Air flow rate **B**.

Turned anticlockwise: open.

Turned clockwise: closed.



It is advisable to keep the air flow rate **B** set to open and to direct the air flow to a neutral position **A**.

Maintenance

The pollen filter must be replaced every year, as indicated in the "Maintenance Schedule".

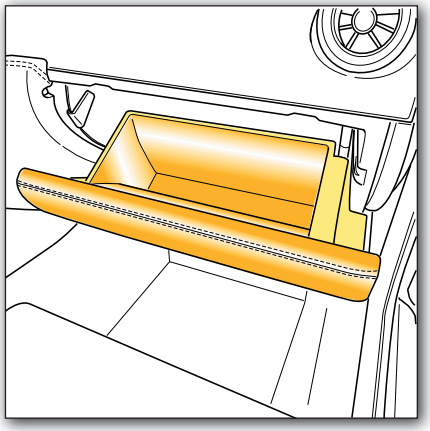
Sun radiation sensor

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

Passenger compartment accessories

Glove compartment

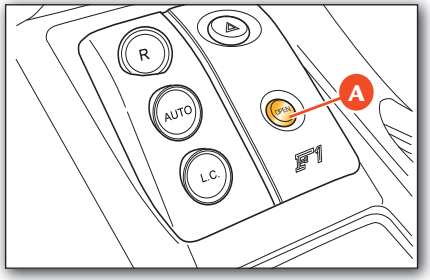
It is located on the passenger's side of the dashboard, and it is always accessible when the key is in position **II**, and for approx. ten minutes after the key is removed or turned to position **0**.



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

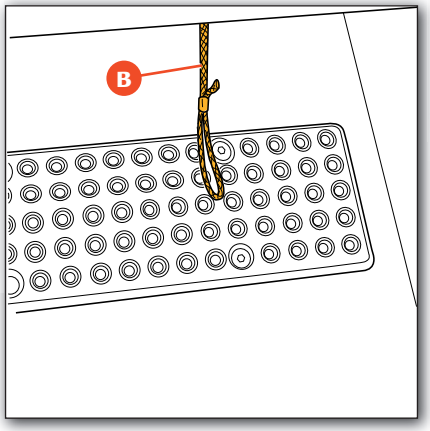
The glove compartment is illuminated by a light which turns on automatically when the door is opened.

Keep the glove compartment closed while driving.



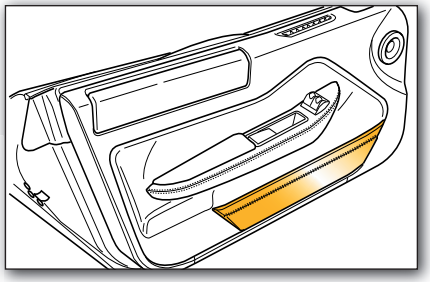
To close the glove compartment, push the upper part of its door until you hear it click into place.

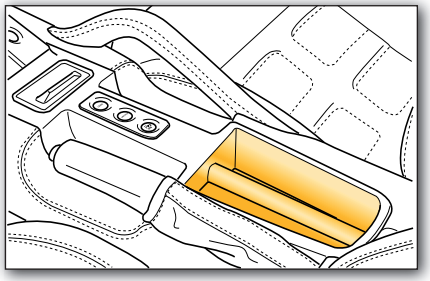
Underneath the dashboard, in position with the external edge of the glove compartment, there is a safety string **B** for manual opening in an emergency.



Pocket-change compartments

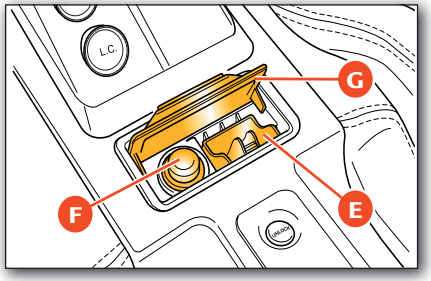
They are located on the lower part of the doors and on the centre console.





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 at position **II**. After reaching the required temperature, the cigarette lighter is automatically released to its initial position and is ready to be used.

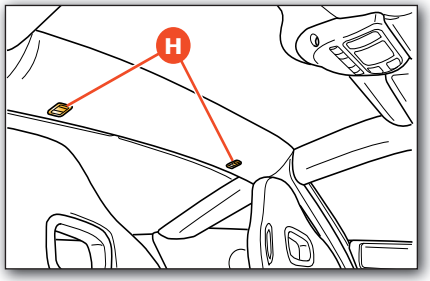


WARNING Do not use the cigarette lighter seat as a power socket for electrical items of any kind! The cigarette lighter reaches very high temperatures. Handle it with care to avoid risk of burns and fire. It is possible to connect the emergency tyre repair and inflation kit ONLY for the time necessary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

It is possible to connect the emergency tyre repair and inflation kit ONLY for time necessary for the operation.

Clothing hooks

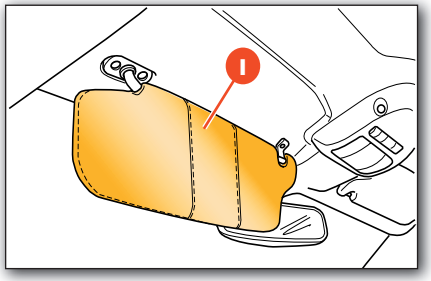
They are fitted in the rear of the passenger compartment. To release the hook, press the button **H**. To reposition the hook, push it upwards into its seat.



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

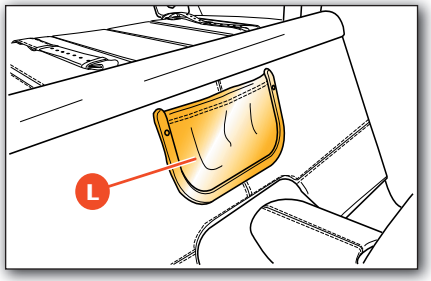
Sun visors

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.



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

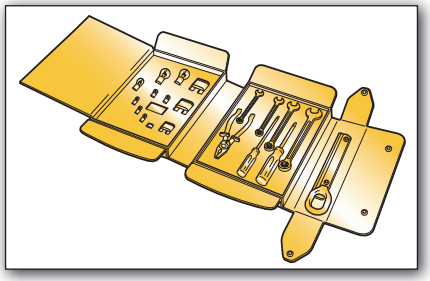
- have suitable personal protection devices (e.g. gloves)
- take suitable precautions (e.g. when changing a tyre, never lie under the vehicle raised on the jack)
- have the minimum and specific skills required for working with electrical parts/components (e.g. the battery).

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
- screwdriver for cross-head screws
- towing hook
- set of spare light bulbs and fuses.



Emergency tyre repair and inflation kit

In the event of a puncture or low pressure of a tyre, the kit can be used to repair and/or inflate the tyre sufficiently to continue the journey safely.

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

Give the instruction manual supplied with the kit to the personnel that will handle the tyre repaired with the tyre repair kit.

In the event of a puncture caused by small objects, tyres can be repaired with tears or holes that have up to a **4 mm** diameter on the tyre tread and shoulder.

Tears on the sides of the tyre cannot be repaired. Do not use the tyre repair kit if the tyre is damaged after driving with a flat tyre.

If the wheel rim is damaged and has caused an air leakage, the tyre cannot be repaired. Do not remove foreign objects (screws or nails) that have penetrated the tyre.

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 80 km/h - 50 mph).

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

Drive carefully especially on bends.

Do not suddenly accelerate or brake.

The kit is to be used to temporarily repair only one tyre 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 tyre pressure.

Remember to apply the parking brake.

If pressure has dropped to below **1.8 bar**, stop driving: the kit cannot guarantee a tight seal because the tyre is too severely damaged. Contact the Ferrari Service Network.

If, on the other hand, the pressure is at least **1.8 bar**, pump the tyre up to the correct pressure and continue driving.

Head for the nearest Ferrari Service Network driving very carefully.

The repaired tyre must be replaced as soon as possible and the workshop personnel must be informed that the tyre was treated with tyre 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 can contain ethylene glycol.

It contains latex: it may cause an allergic reaction. Harmful if swallowed. Irritating to eyes. May cause sensitisation 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 vapours 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 expiry 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 national and local regulations.

The sealant in the kit cartridge can damage the sensor inside the wheel rim on vehicles fitted with a tyre pressure monitoring system.

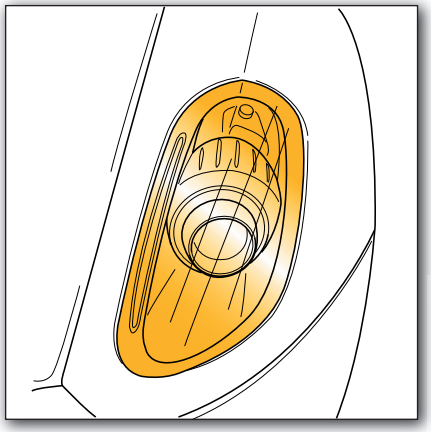
If this occurs, the sensor must be replaced. Contact the Ferrari Service Network.

Wear the protective gloves supplied with the tyre 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 signal hazardous situations in compliance with applicable legislation.

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 the Ferrari Service Network.

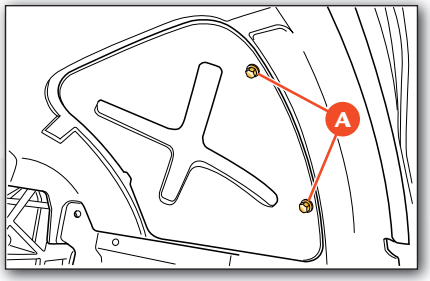
For aiming the headlight beam, please contact the Ferrari Service Network.

Replacing the front direction indicator and position light bulbs

Before replacing a light bulb in the headlights, ensure that the relative fuse is intact.

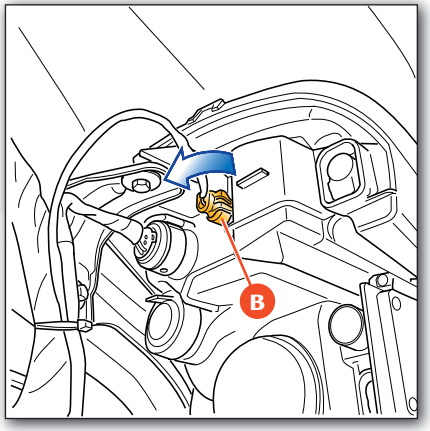
Turn the battery master switch to **OFF**.

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

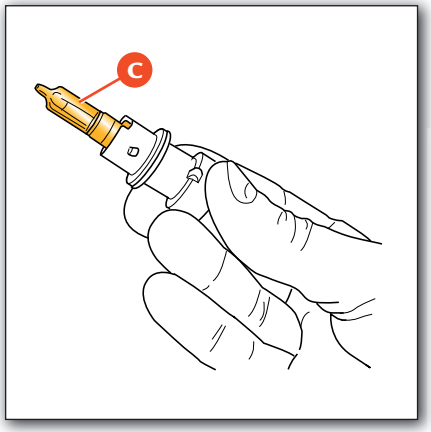


To replace **the front direction indicator bulb**, proceed as follows:

- detach the connector **B**;



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

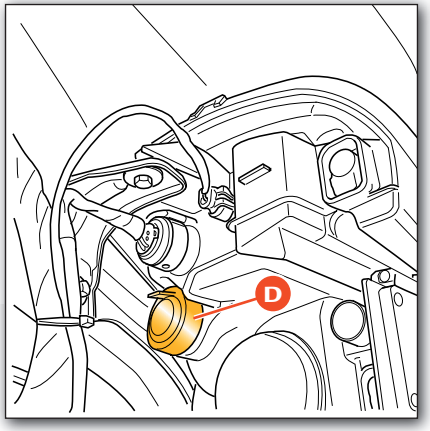


- remove the bulb **C** by pulling it outwards;
- fit the new bulb by fully pushing it into place;
- refit the bulb holder in its seat and turn it clockwise until it locks;
- refit the connector.

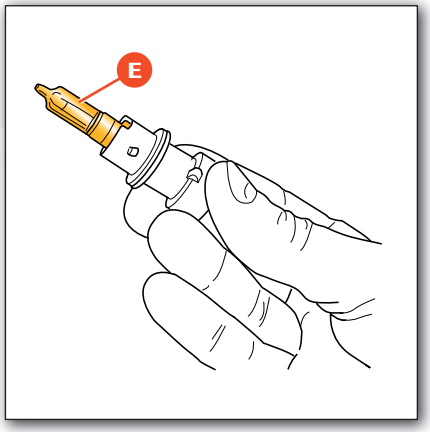
Reconnect the battery (see page 140).

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

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



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

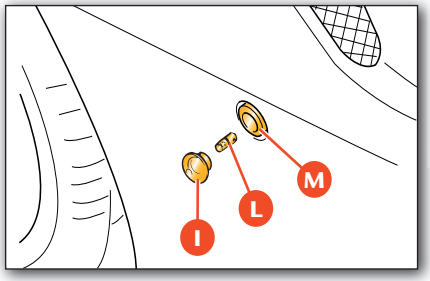


- replace the pressure-fitted bulb **E**;
- refit the bulb holder in its seat;
- refit the rubber cover **D**.

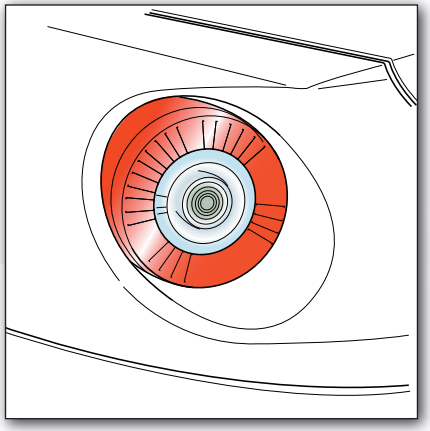
Refit the panel into the wheelhouse.

Replacing the side direction indicator bulbs

- remove the transparent cover **I** of the indicator, taking care not to damage the coachwork;
- remove the bulb **L** by rotating it and removing it from the bulb holder **M**;
- replace the bulb and refit the transparent cover.



Replacing the taillight bulbs

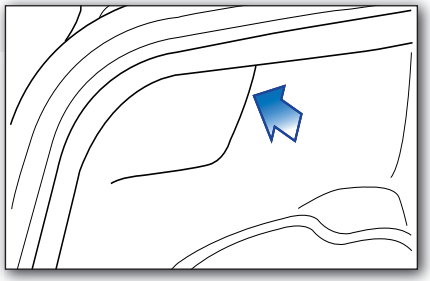


Before replacing a light bulb in the headlights, ensure that the relative fuse is intact.

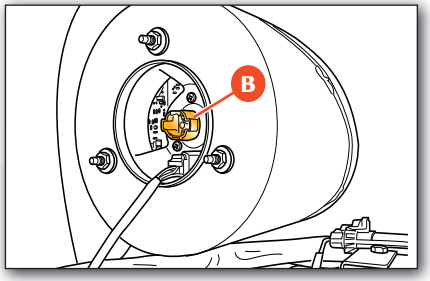
Turn the battery master switch to **OFF**.

To replace a taillight bulb, proceed as follows:

- partially lever out the luggage compartment weather strip;



- remove the bulb holder **B**;

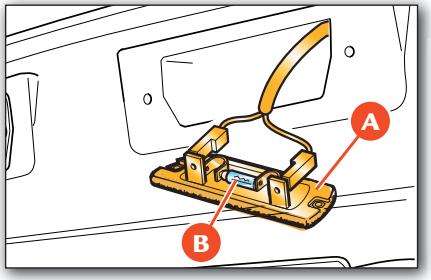


- remove the bulb by pulling it out and replace it;
- refit the bulb holder and reposition the luggage compartment weather strip.

Replacing the number plate light bulb

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

- loosen the two fastening screws;



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

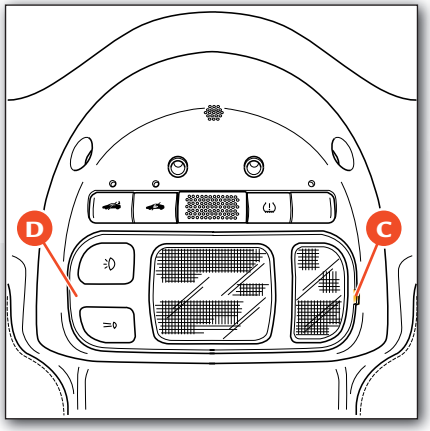
Replacing the auxiliary stop light bulb

To replace the light cluster, please contact the Ferrari Service Network.

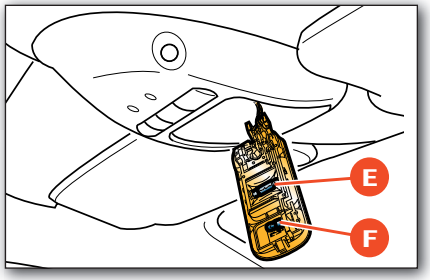
Replacing other light bulbs

Roof dome light

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



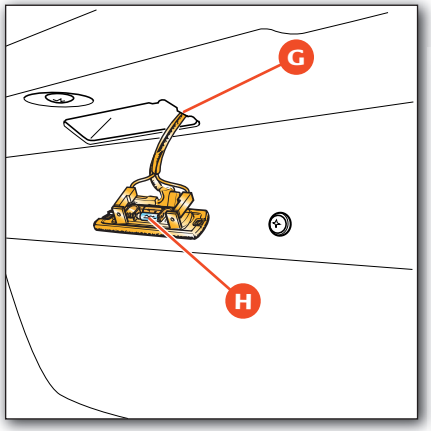
- Replace the light bulb **E** or **F**.



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

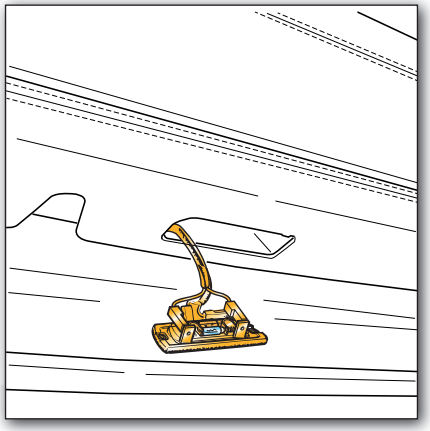
Glove compartment light, luggage compartment light and underdoor light

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



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

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



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

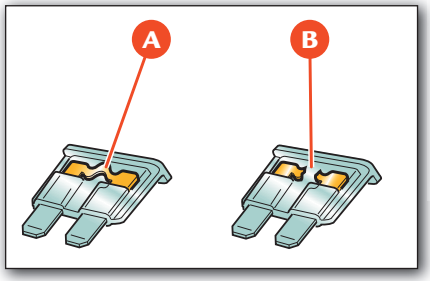
	Type	Power
Low beams and high beams	Xenon (gas discharge)	Das
Front position lights	incandescent	H6W
Front direction indicator lights	incandescent	21W
Side direction indicator lights	incandescent	T4W
Taillight	incandescent	6W
Number plate lights	incandescent	R5W
Auxiliary stop light	LED	
Rear fog lights	incandescent	H21W
Dome light	incandescent	10W
Spot light	incandescent	6W
Glove compartment light	incandescent	W5W
Courtesy light	incandescent	W5W
Luggage compartment light	incandescent	W5W

Replacing a fuse

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

A - Fuse intact.

B - Fuse blown.

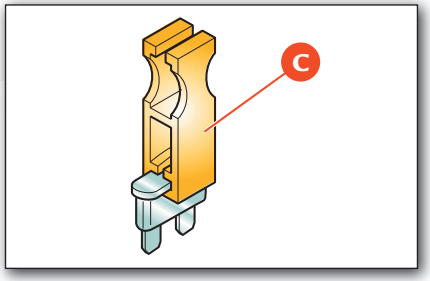


If the problem persists, contact the Ferrari Service Network.

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

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 colours

	Ampere
dark yellow	5
brown	7.5
red	10
light blue	15
yellow	20
white	25
green	30

Maxi fuse colours

	Ampere
yellow	20
green	30
orange	46
red	50
blue	60

Location of the fuse and relay boxes

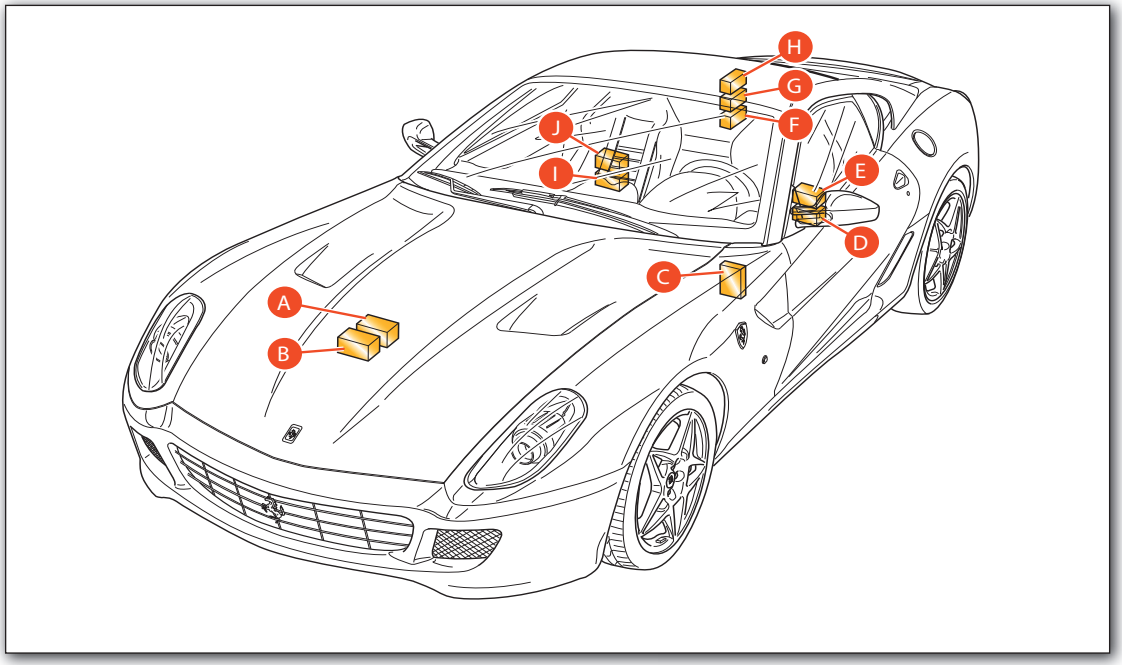
A, **B** - Fuses and relays in the engine compartment

C - Body Computer fuses and relays

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

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

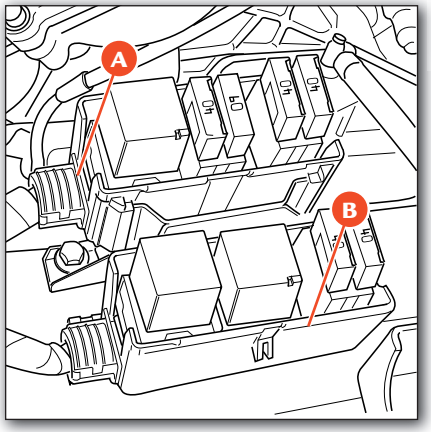
I, **J** - Fuses and relays in the passenger compartment, passenger side



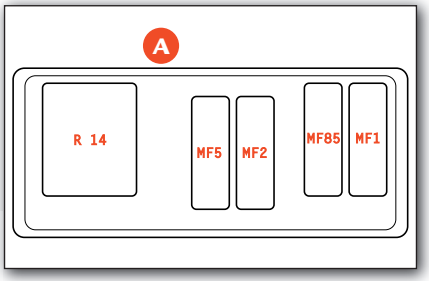
Fuses and relays in the engine compartment

To access these fuses you must:

- open the engine compartment (see "Engine Compartment - Opening" on page 53)
- remove the box covers **A** and **B**.



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



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

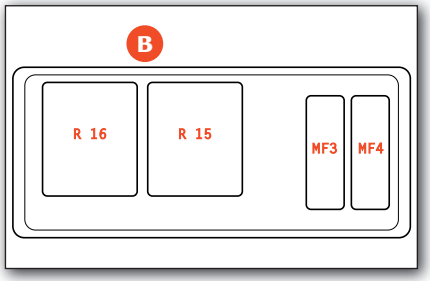
Ref.	Amp.	Use
R14	50	air pump

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)

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

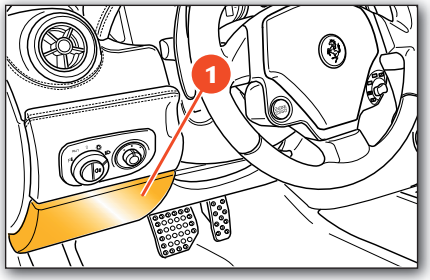
Ref.	Amp.	Use
R16	50	LH fans
R15	50	RH fan

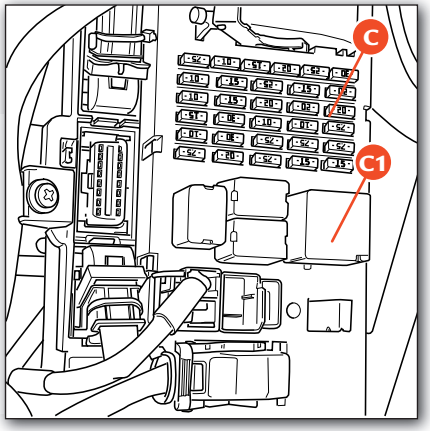
Ref.	Amp.	Use
MF3	40	+30 RH fans (Link Box)
MF4	40	+30 LH fans (Link Box)



Body Computer fuses and relays

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



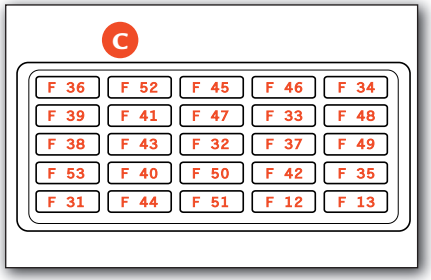


We recommend that you only open the boxes in which you need to work, to avoid damaging other components.

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

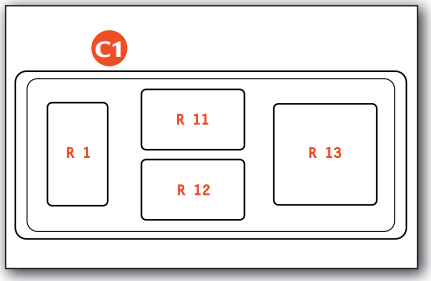
Ref.	Amp.	Use
F36	10	+30 glove compartment motor
F52	15	driver seat heating (INT/A connected device relay)
F45	25	(not used)
F46	15	(not used)
F34	20	(not used)
F39	10	+30 for NIM, NCL, diagnostic socket EOBD, CSA, CAV, radio/NIT, telephone option
F41	15	(not used)
F47	20	(not used)
F33	20	(not used)
F48	20	(not used)
F38	15	+ 30 ratio motor for luggage compartment lock
F43	30	windscreen 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 CSG, CSP, NIM, NCL, radio/NIT, CEM, CRP, telephone option, dome light panel, windscreen 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**):

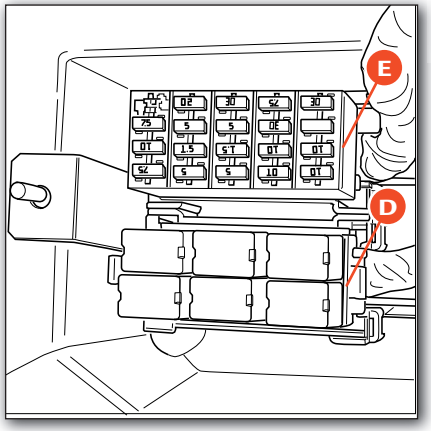
Ref.	Amp.	Use
R01	20	low beams
R11	30	heated rear window
R12	30	connected devices 1 (controlled by INT/A ignition switch)
R13	50	connected devices 2 (NBC-controlled) (option)



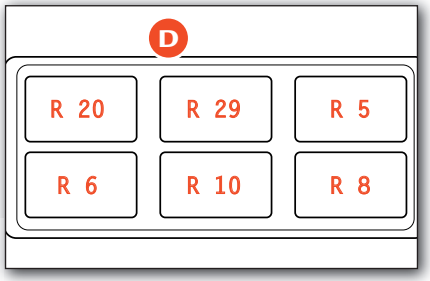
Fuses and relays in the passenger compartment (driver-side)

To access these fuses you must:

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



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

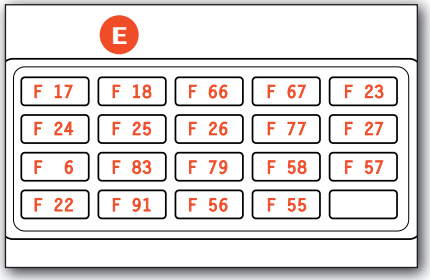


The box **D** contains the following relays (**R**):

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

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

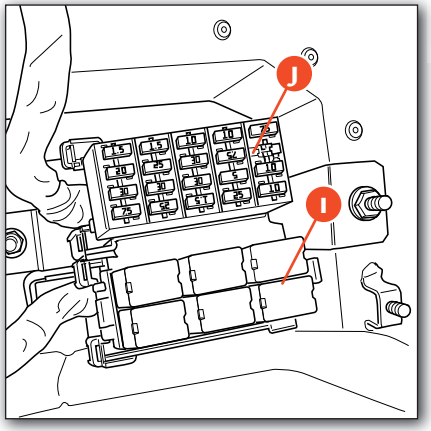
Ref.	Amp.	Use
F55	20	+30 steering column adjustment (only with basic seat version)
F56	30	+30 passenger seat adjustment
F91	7.5	+30 NAP (electronics)
F22	30	LH main injection relay
F57	7.5	+15 alternator, NVO, start button
F58	5	+30 NTP
F79	5	+30 NQS
F83	30	+30 NPG power supply
F6	25	+30 from ignition switch
F27	10	+15 LH injection
F77	15	+87 LH oxygen sensor main relay
F26	15	+87 injectors main relay, LH coils
F25	10	solenoid valves, air flow meter, LH diagnostic pump
F24	10	+87 LH main relay
F23	7.5	+30 LH injection
F67	5	+30 front RH - rear LH side marker
F66	5	+30 front LH - rear RH side marker
F18	10	+30 RH low beam
F17	10	+30 LH low beam



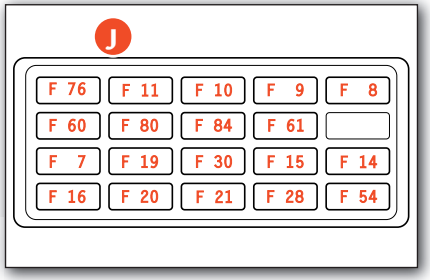
Fuses and relays in the passenger compartment (passenger-side)

To access these fuses you must:

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



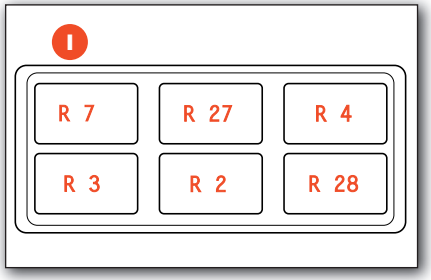
We recommend that you only open the boxes in which you need to work, to avoid damaging other components.



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
F80	25	+30 Hi-Fi system (bass-box and subwoofer)
F84	30	+30 NPP power supply
F61	7.5	+30 NAG (electronics)
F7	30	+30 injection main relay, RH main coil relay
F19	30	+30 starter motor

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)



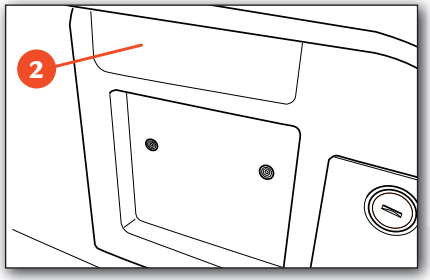
The box **I** contains the following relays (**R**):

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

Fuses and relays in the luggage compartment

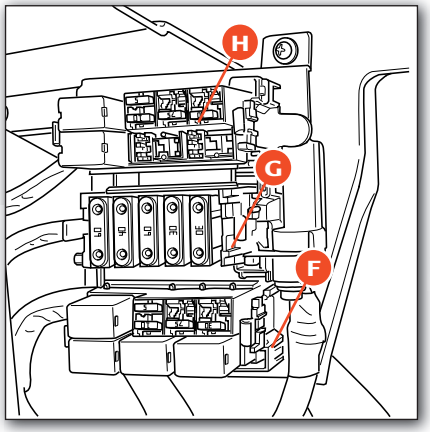
To access these fuses you must:

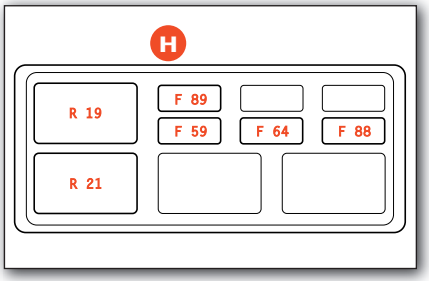
- remove the door 2 on the right-hand side of the luggage compartment, by undoing the two fastening screws



- remove the covers on the boxes H, G and F.

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

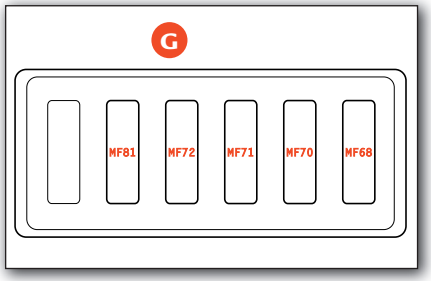




The box H contains the following fuses (**F**) and relays (**R**):

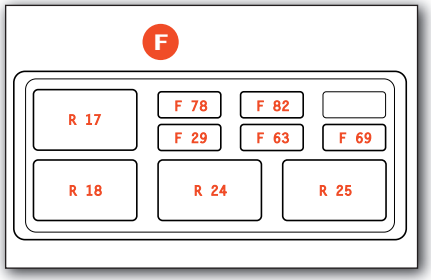
Ref.	Amp.	Use
R19	20	reverse gear
R21	20	fuel tank door

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	RH fuel pump, 1st speed
R18	20	RH fuel pump, 2nd speed
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:

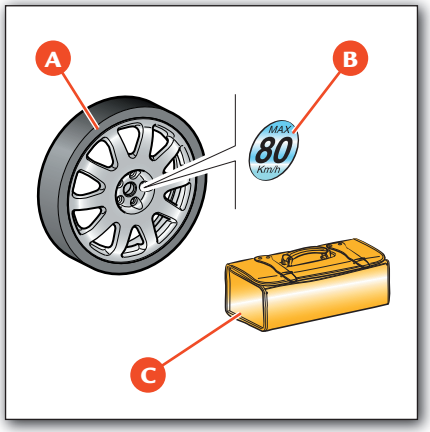
- Replace the stud bolts with damaged thread or cone.
- Carefully clean the stud bolts before fitting.
- Absolutely do not lubricate the contact surfaces between the stud bolt and the wheel rim, and between the wheel rim and the brake disk.

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

Collapsible spare wheel

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

- collapsible spare wheel **A** with space-saving tyre; the label **B** indicates the Max. speed permitted (80 km/h - 50 mph).
- Additional toolkit bag **C** containing: jack and wrench to fasten the wheel stud bolts.



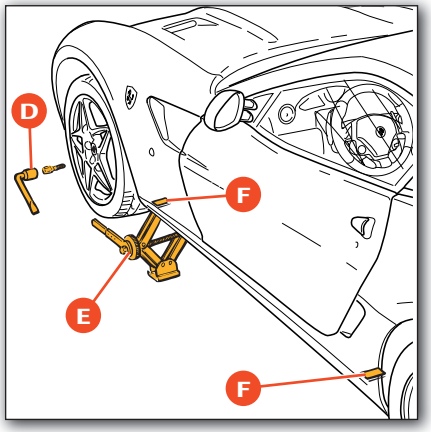
Warning

- The spare wheel must only be used for short trips, in emergencies.
- When the spare wheel is fitted, never exceed the maximum speed of 80 km/h (50 mph) and drive carefully, especially on bends and when overtaking, avoiding sudden acceleration or braking.
- Do not exceed the approved weight limits.
- Do not fit snow chains on the spare wheel.
- Never fit more than one spare wheel at a time.

Failure to comply with these instructions could lead to loss of control of the vehicle and consequently damages to the vehicle and injuries to the occupants.

Replacing a wheel

- Position the vehicle on an even surface, then block the rear wheels by applying the parking brake.
- 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.
- Raise the vehicle carefully, using the jack, until the wheel is lifted off the ground.



WARNING 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.
- Screw in the five fastening stud bolts, without tightening them.

WARNING Inflate the deflated collapsible spare wheel before lowering the car, as otherwise the rims may become damaged.

- Inflate the collapsible spare wheel using the inflation kit (page 117).

WARNING The kit must be used in the "tyre inflation" mode. Refer to the instruction manual supplied with the kit.

- Inflate to the indicated pressure (see page 23).

WARNING The spare wheel is not equipped with the tyre 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 Centre of the Ferrari Service Network.

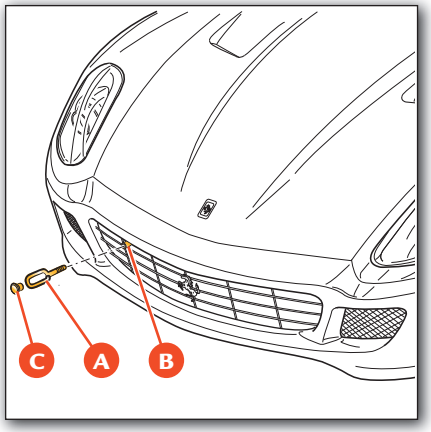
- Lower the vehicle and remove the jack.
- Tighten the stud bolts completely, moving diagonally from one to the next.

As soon as possible, tighten the stud bolts with the torque wrench to 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.

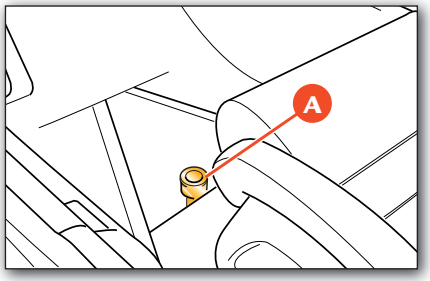
Fuel inertia switch

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 signalled by the illumination of the relative symbol on the multifunction display (see page 70) 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 switched on.

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

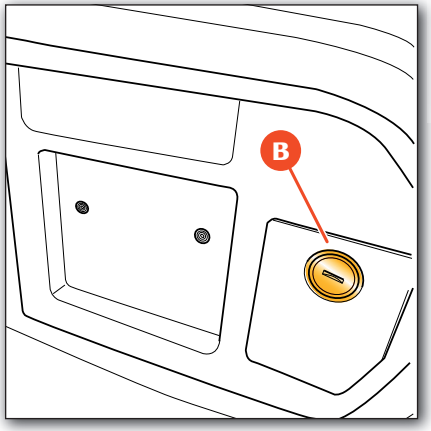


Battery master switch

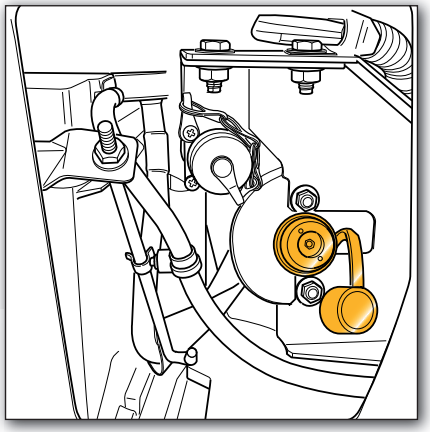
It is located on the RH side of the luggage compartment. To access it, remove the small door **B**.

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

Disconnect the battery by turning the switch anticlockwise with a TORX T40 wrench.



The battery master switch must only be used if the battery charge maintainer cannot be connected.



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 2-3 cm (0.78–1.18 in.) 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 use the utmost care; do not close them again until the windows can be lowered.

Preferably use the battery charge maintainer 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 in place.

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

- Close both doors and close the luggage compartment lid; unlock and lock the doors using the remote control; open the luggage compartment lid with the remote control.
- Set the clock (date and time on control panel).
- Close both doors then raise the driver side and passenger side windows up to the

weather strip; check that both windows drop to the "pre-set position" when the doors are opened.

Wait at least 60 seconds with the ignition key in position **II** before starting the engine, to allow the electronic system managing the motorised valves, and the AC ECU, to perform a self-learning cycle.

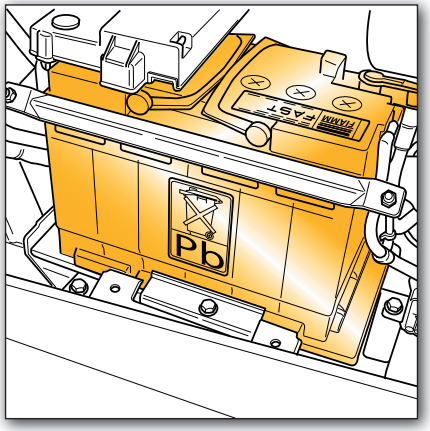
During this time, do not activate any device.

The Motronic ECU self-learning cycle will only function correctly with an intake air temperature above 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 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 charge maintainer

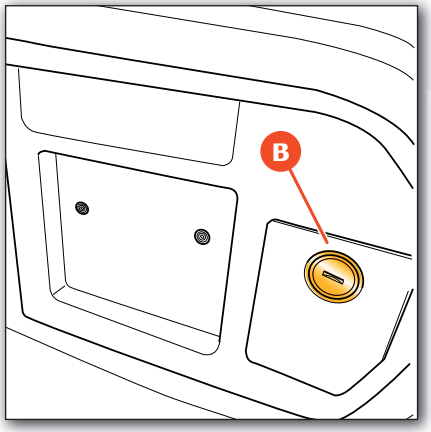
The car is equipped with a charge maintainer for battery maintenance.

The use of the charge maintainer helps to extend the working life of the battery.

The device is stored in an inner pocket of the bag containing the car cover that is supplied with the car.

The socket for connecting the charge maintainer is fitted on the right-hand side of the luggage compartment, behind the cover **B**.

Position the maintainer in a clearly visible place, far from heat sources and out of the reach of children.

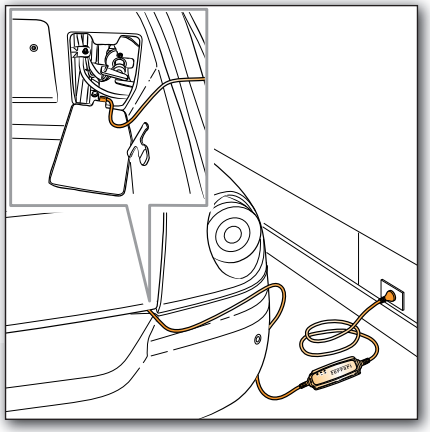


When the maintainer has been connected to the socket of the vehicle, pass the connection cable beneath the luggage compartment lid, in the outer rear corner.

The connection cable should not emerge from the car in positions other than the one indicated, as this could cause damage to the seal strips and/or the cable itself.

If the car is not to be used for periods longer than one week, we recommend that you connect the maintainer in order to keep the battery in good working order.

Vehicle start-up is inhibited as long as the maintainer is connected to the socket in the car.

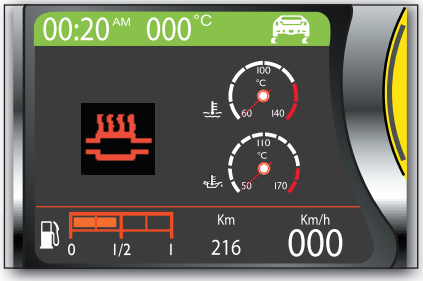


Further technical information concerning the use of the device is given in more detail in the manual located in an inner pocket of the bag containing the car cover.

Exhaust system overheating alarm devices

If the exhaust system overheats, the relative symbol appears 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.



If the temperature is high:

the driver must slow down immediately so that the exhaust system temperature drops.

If the temperature is extreme:

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 that the exhaust system cools down. After approximately 5 minutes, restart the engine and continue driving normally.

If the EOBD warning light comes on at the same time, contact the Ferrari Service Network to check the ECU error memory.

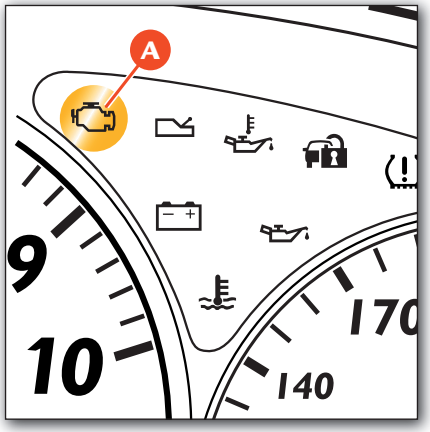
Incorrect use of the vehicle may cause the TFT warning light to come on.

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 **EOBD** "**Engine diagnostic system failure**" warning light **A** 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" comes on, engine performance may be considerably reduced.

Drive carefully, avoiding sudden accelerations and high speeds.

Contact the Ferrari Service Network 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.

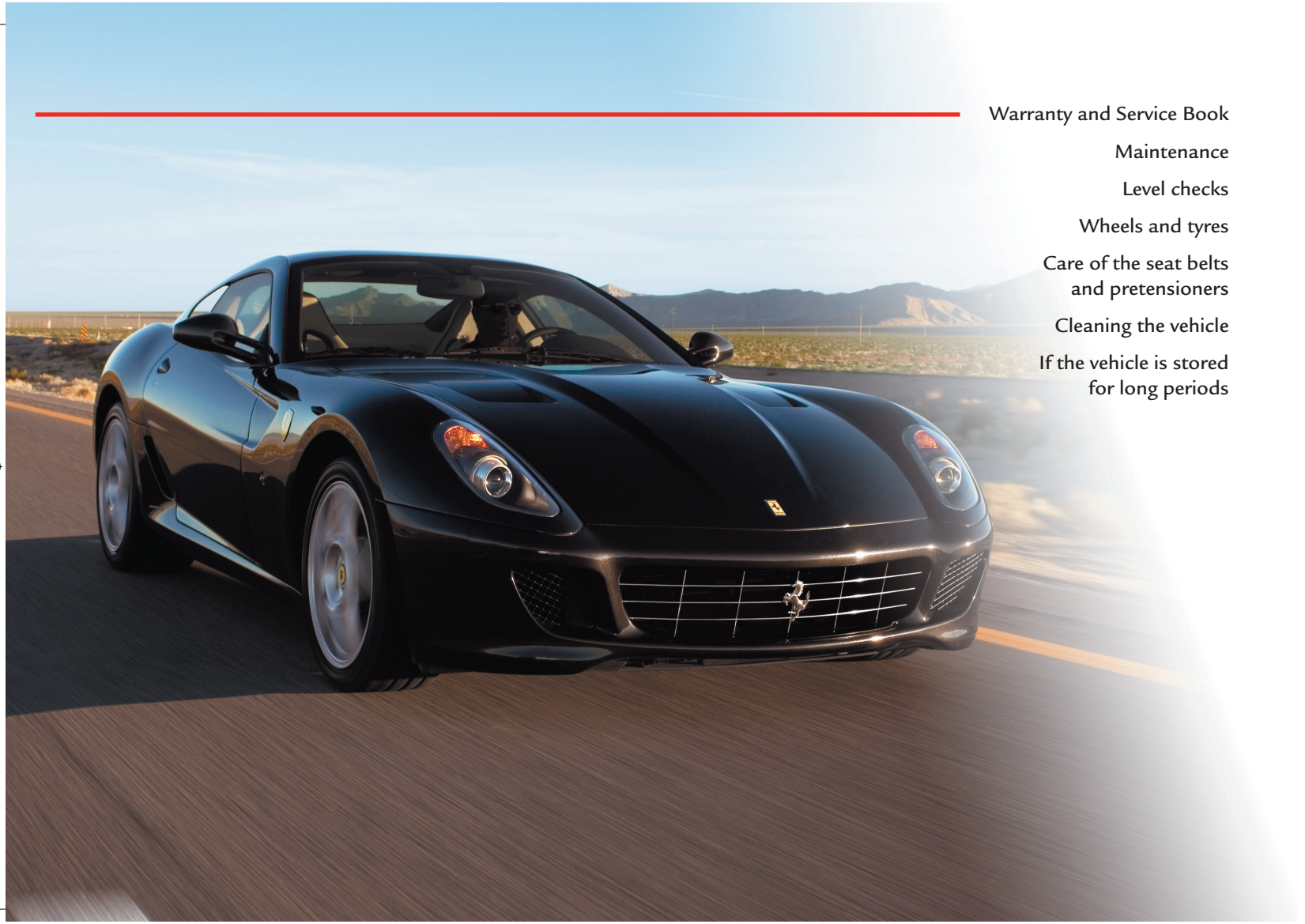
The minimum thickness allowed for the pads is 3mm/0.12 in. (thickness of the friction material only).

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 ensure the quality of the components and accurate installation, we recommend that you have the procedure performed by an Authorised Ferrari Service Centre.

To ensure proper breaking-in of the pads following replacement, avoid sudden and sharp braking until the new pads have been run-in, after about 300 km (186 mi).



Warranty and Service Book

Maintenance

Level checks

Wheels and tyres

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.

WARNING The warranty and service book also contains special blank spaces where the Authorised Service Centres 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 Ferrari Service Network.

Maintenance schedule

At the intervals prescribed, the Ferrari Service Centres must perform all the tuning and checking operations indicated in the "Warranty and Service Book".

It is however advisable to immediately report to our Service Centres 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 "Yearly Maintenance" in the "Warranty and Service Book").

Chassis and bodywork maintenance

The vehicle chassis is entirely made of aluminium, and was designed using the technology referred to as "**Space Frame**".

The chassis therefore has technological and manufacturing specifications that require that any operation be performed by staff specially trained to work with this innovative technology.

It is of crucial importance to use equipment tested by Ferrari if the repair work is to be performed in accordance with rules of good workmanship. Proper execution of repair work 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 the Ferrari Service Network.

We recommend that you use genuine Ferrari spare parts, which can be obtained from the Ferrari Service Network.

The chassis, under standard conditions of use, requires no maintenance; it is however advisable to contact the Ferrari Service Network 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 the 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:

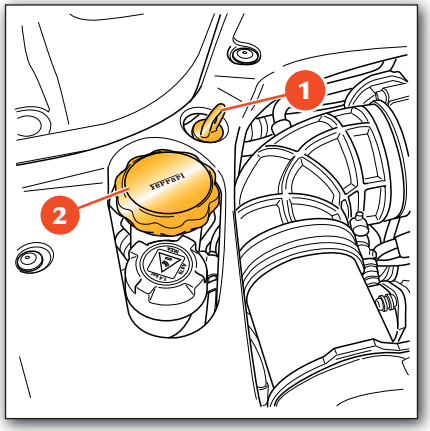
A Run engine at idle to reach an engine oil temperature of 85 to 90°C (of 185 to 194°F).

B Run engine at 4500 rpm for 1 minute.

C Run engine at idle for 2 minutes, then (without turning engine off) check oil level.

If oil is not checked within 3 minutes (instead of 2 minutes, as indicated above), repeat steps B and C before checking.

D Remove the dipstick **1** from the sump and check level: the level must be between the **MIN** and **MAX** notches on the dipstick.



Difference between **MAX** and **MIN** = **1.5 litres.**

E If oil level is too low, unscrew the cap **2** on the tank and top up with the recommended oil. Keep oil level between the **MIN** and **MAX**. 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 the Ferrari Service Network.

F Run engine at 4500 rpm for 1 minute.

G Run engine at idle for 2 minutes, then (without turning engine off) check oil level.

As the first check was carried out within the 2nd and 3rd minutes, the second oil check must also be performed within the same time period.

For instance, if the first check was carried out after 2 min. 30 sec., the second check must also be carried after approximately 2 min. 30 sec..

H Remove the dipstick **1** from the sump and check level: the level must be between the **MIN** and **MAX** notches on the dipstick. Screw the cap **2** back on tightly.

Top up with due care to avoid pouring the oil out of the filler neck.

Gearbox and F1 gearbox system oil

We recommend that you have the oil level checked by the Ferrari Service Network or by skilled staff.

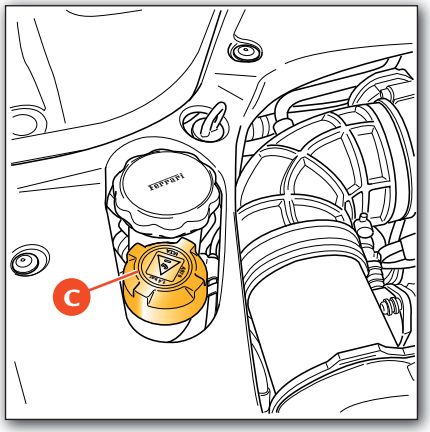
Coolant

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 40 mm from the top of the filler neck.
- If the level is low, top it up with the recommended fluid.

If frequent top-ups are required after short trips, have the system checked by the Ferrari Service Network.

- Screw the cap **C** back on tightly.



Filling the circuit

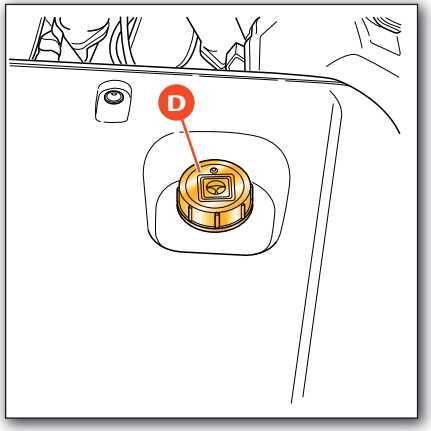
To fill the circuit (this operation must be performed when the engine is cold), proceed as follows:

- Detach the bleeder pipe on the radiator and hold it lifted, so that it is at the same height as the filer neck, in order to prevent spilling.
- Turn on the instrument panel and select the maximum temperature on the air conditioning and heating system.
- Completely unscrew the bleeder cap on the heater inlet pipe.
- Slowly pour in the indicated quantity of coolant through the expansion tank filler neck, until the fluid comes out from the open bleeder on the radiator. Reconnect the radiator bleeder pipe and complete the filling procedure until reaching the **Max.** level. If water comes out of the heater pipe, close the cap.
- Close the bleeder cap on the heater pipe.
- Close the filler neck cap.
- Open the heater by selecting the **Max.** temperature for the air conditioning and heating system.
- Start the engine and let it run 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 (~50 °C).
- After the coolant level in the filler neck has stabilised, close the filler cap.
- Bring the engine speed up to 3000 RPM for a minute and then back to idle .
- Bring the engine speed back to 3000 RPM, close the heater and, after one minute, run the engine at idle speed again.
- Stop the engine and let it cool down.
- Check the level once again and, if

necessary, top up as indicated above (without bleeding).

- Screw on the filler neck cap tightly.

Hydraulic steering system oil



The level check must be performed with the engine warm, after having driven at least 15 Km (9 miles), and with the vehicle parked on a flat ground.

Remove the cap **D** from the tank in the engine compartment and check that the level is between the **MIN** and **MAX** notches on the dipstick.

The oil level must be checked with the cap resting on the tank.

Top up if necessary with the recommended oil up to the **MAX** level.

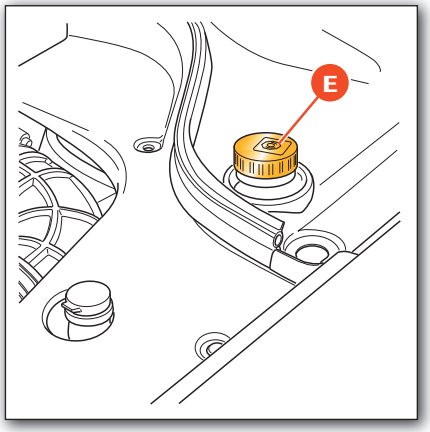
Screw the cap **D** back on tightly.

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 top 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.

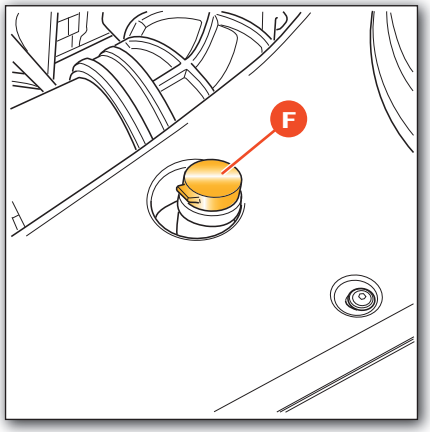
Do not use fluids other than those already containead in the system for topping up.

- When the system has been topped up, screw the cap back on and reconnect the electrical system.

Windscreen wipers and washer fluid

The tank for the windscreen wipers and washer fluid can be accessed by lifting the luggage compartment lid.

- Lift the cap **F** and fill the tank with the recommended fluid (see the "Recommended Lubricants and Fluids") until it can be seen in the filling manifold.
- Close the cap.



Wheels and tyres

To ensure maximum performance and tyre life and to permit the best tyre adjustment on the wheel rim, it is important to comply with the following instructions for the first 200–300 km (125–185 mi.) with new tyres:

- avoid sudden acceleration
- avoid sharp braking and steering
- drive at moderate speed on straight roads and on curves.

How to use the tyres

The tyres must be constantly kept in good conditions to ensure safe driving.

The inflation pressure must correspond to the specified values and must be checked only when the tyres are cold. Tyre pressure increases as the tyre temperature progressively increases.

Never reduce the pressure if the tyres are hot.

Insufficient tyre pressure can lead to overheating, damage and even destruction of the tyres.

Periodically check the tyre pressure.

Inflating the tyres to a pressure differing from that prescribed (see table on page 23) will render the monitoring system inefficient.

Sudden impact 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 tyres that is not always visible to the naked eye.

Check the tyres regularly for any signs of damage (e.g., scratches, cuts, cracks, bulges, etc.).

If sharp objects penetrate the tyres, they can cause damage which is only visible when the tyre is removed.

Have any damage inspected by an expert as it may considerably reduce tyre life.

Remember that tyres 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 ageing.

The Ferrari Service Network has the necessary equipment for tyre replacement.

Have the tyres replaced by the Ferrari Service Network, who has the required equipment in order to avoid damage to the sensor inside the wheel rim, which could be caused by improperly performed procedures.

Ensure that the tyres on stock are not older than 4 years. The maximum life of the tyres kept in stock is of 4 years, provided that they are stored in a place protected from the sun, weather agents and damp, and where there is a low oxygen content.

The Ferrari Service Network can certify whether aged tyres are suitable for use. In any case, tyres that have remained on a vehicle for more than 3 years must be checked by a Ferrari Service Centre.

We recommend that you replace the tyres every 4 years in case of normal use. Frequent use in maximum load conditions and at high temperatures may accelerate ageing.

Never fit tyres of uncertain origin.

The tyres are of the "directional" type and there is an arrow marked on their side wall to indicate the direction in which they must rotate or which side is the outer side. In the case of replacement, maximum performance levels can only be ensured if the rotation direction corresponds with the direction indicated by the arrow.

Tyres on the same axle must always be replaced in pairs.

Regularly check the tyre tread (minimum acceptable depth **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 tyres and in any case, at the intervals prescribed in the "Warranty and Service Book", have the Ferrari Service Network check the wheel toe-in and camber.

Maintenance of the seat belts and pretensioners

- Periodically check that the screws on the anchoring points are tight and that the belt is in perfect condition and slides smoothly.
- The belt must be kept clean; the presence of any dirt could jeopardise the efficiency of the belt winder.
- 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 fibres.
- Do not let the belt retractors get wet: proper functioning is ensured only if they are kept dry.
- The pretensioner requires no maintenance or lubrication. If immersed in water or mud, the pretensioner must necessarily be replaced.
- The pretensioner must be replaced at the intervals indicated in the "Warranty and Service Book".

Cleaning the vehicle

Cleaning the exterior

All the materials used for the following operations (e.g., cloths soaked with oil or grease, pans, etc.) must be disposed of in compliance with the environmental protection regulations.

Proper care of the vehicle on the part of the owner is essential for 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.

WARNING Do not use aggressive substance to clean up the windows. Using aggressive substances may permanently 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 strike against 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.

WARNING 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 manoeuvres, etc., must be immediately repaired by the Ferrari Service Network.
- 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 the Ferrari Service Network only.

Improper operations may irreparably damage the carbon parts.

Do not use aggressive organic substances, such as: petrol, 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 Service 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 the Ferrari Service Network.

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 tyre pressure to 3.0 bar and periodically change the tyre resting point on the ground
- connect the battery conditioner, as indicated in the "Battery conditioner" (see page 141).

If you do not wish to connect the battery to the battery conditioner, in order to keep certain devices functioning such as: car radio channel memory, alarm system, etc., the battery must be recharged at least once a month. If the vehicle is stored for a long period of time without using the battery conditioner, 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 tyre pressure to the indicated pressure and check the fluid levels of all the systems.

Extreme caution required	Subject	Page ref.
Due to the high power generated by the engine, we recommend that the vehicle is only used by experienced drivers.	Introduction	Page 4
The vehicle is equipped with exhaust gas control and monitoring systems, which must always be fully efficient.	Introduction	Page 7
	General	
Make sure you record the code numbers in the space provided in the “Warranty and Service Book”.	Vehicle keys	Page 10
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 10
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 10
Contact the Ferrari Service Network immediately to have all the keys stored in the system memory.	Vehicle keys Key codes	Page 11
Each key supplied has its own specific code, which must be stored in the memory of the system ECU.	Vehicle keys Key codes	Page 11

Extreme caution required	Subject	Page ref.
If a seat belt has come into contact with cutting edges or was somehow perforated, we recommend that you have it immediately replaced by the Ferrari Service Network	Seat belts	Page 28
Do not allow children to be held on a passenger's lap using only one seat belt for both of them.	Seat belts Fastening the seat belts	Page 29
After activation, the pretensioners no longer function and they cannot be repaired, under any circumstances. Contact the Ferrari Service Network for replacement.	Seat belts Pretensioners	Page 30
All work on any part of the safety system components may only and exclusively be performed by the Ferrari Service Network.	Seat belts Pretensioners	Page 30
Do not install rearward-facing child seats on the front passenger seat if the airbag is active, as this could cause serious injuries in the event of airbag deployment. 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 31
Child seats may only be installed with the seat fully lowered and pushed backward.	Child safety	Page 31
Children may only travel in a rearward-facing child seat installed on the passenger seat if the vehicle is provided with the "passenger airbag deactivation kit" (optional) and when the passenger-side airbag is deactivated.	Child safety	Page 31

Extreme caution required	Subject	Page ref.
Incorrect fastening of a child restraint system increases the risk of injury to the child in the event of a collision.	Child safety	Page 31
If you need to carry a child on the front passenger seat, always deactivate the passenger-side airbag using the "passenger airbag deactivation kit" (optional), on the vehicles equipped with this device, before installing the child seat.	Child safety	Page 32
Always reactivate the passenger-side airbag after carrying a child.	Child safety	Page 33
If adults travel in the front seat when the passenger-side airbag is deactivated, this increases the risk of injuries in the event of an accident.	Child safety	Page 33
Never carry children on an adult's lap. During a collision, the adult's weight may cause the child to be crushed by the seat belt or against the dashboard.	Child safety	Page 33
Do not use the vehicle to carry new-born babies. The high performance levels of the vehicle and in particular its sharp accelerations may be harmful for babies.	Child safety	Page 33
Drive carefully and at moderate speed if you are carrying children. Sharp accelerations and sports-style driving may be dangerous for children, even if no collision occurs.	Child safety	Page 33

Extreme caution required	Subject	Page ref.
The airbag is not a substitute for the seat belts, although it increases their efficiency. Correct use of the seat belts in combination with the airbag will offer optimal protection in the event of a collision.	Airbag	Page 33
When the ignition key is turned to position II, the warning light C will come on. If no malfunctioning is detected, it will go off after 4 seconds. If the warning light does not come on, if it remains on or if it comes on while driving, contact the Ferrari Service Network immediately.	Airbag Airbag system components	Page 33
The driver and passenger are both advised not to travel handling objects (e.g., beverage tins or bottles, pipes, etc.,) that could cause injury in the case of airbag activation.	Airbag Operation	Page 34
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 34
The driver and passenger must always fasten their seat belts and sit in an upright position, as far as possible away from the airbag, in order to have optimal protection in all types of collision.	Airbag Operation	Page 34
Always keep the backrest of your seat in the upright position and sit with your back properly resting against it.	Airbag Operation	Page 34

Extreme caution required	Subject	Page ref.
Therefore, even with the vehicle stationary, do not allow children to sit on the front seat.	Airbag Operation	Page 34
Never place an object over or near the airbag covers. In the event that the airbags are deployed, these objects would be propelled into the passenger compartment at such high speed as to seriously jeopardise the safety of the occupants.	Airbag Operation	Page 34
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 the Ferrari Service Network. Activation of a damaged module could cause serious or fatal injuries.	Airbag Operation	Page 35
Never remove the steering wheel. If necessary, this procedure should only be performed by a Ferrari Service Network Centre.	Airbag Operation	Page 35
All the airbag system components must be replaced after an accident that caused airbag deployment.	Airbag Operation	Page 35

Extreme caution required	Subject	Page ref.
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 35
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.	Airbag Operation	Page 35
The airbags are not a substitute for the seat belts, although they increase their efficiency. Correct use of the seat belts, with the supplementary action of the side bags, will offer optimal protection in the event of a collision or vehicle roll-over.	Side Airbag	Page 36
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 36
When the ignition key is turned to position II, the warning light **B** will come on. If no malfunctioning in the airbag system is detected, it will go off after 4 seconds. If the warning light does not come on, if it remains on or if it comes on while driving, contact the Ferrari Service Network immediately.	Side Airbag Side bag system components	Page 36

Extreme caution required	Subject	Page ref.
Never travel with your head leaning out of the window, as your height 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 compromise the protective action of the side bags.	Side Airbag Operation	Page 37
Never place an object over or near the airbag covers. In the event that the airbags are deployed, these objects would be propelled into the passenger compartment at such high speed as to seriously jeopardise the safety of the occupants.	Side Airbag Operation	Page 37
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 the Ferrari Service Network. Activation of a damaged module could cause serious or fatal injuries.	Side Airbag Operation	Page 37
Following activation, the airbag components can no longer offer their protective action; therefore, they cannot be repaired and must be replaced. After activation of a side bag, have it replaced by the Ferrari Service Network.	Side Airbag Operation	Page 37

Extreme caution required	Subject	Page ref.
The side bag units must be replaced 15 years after installation, even if the vehicle was not involved in accidents.	Side Airbag Operation	Page 37
The ABS system features remain unaltered as long as the speed limit for the tyre side grip is not exceeded. Beyond that limit, vehicle skidding cannot be avoided.	ABS	Page 38
The ABS system does not exempt the driver from driving carefully and responsibly at all times.	ABS	Page 39
The system warns the driver that the the tyre pressure has decreased. However, this does not exempt the driver from periodically checking that the tyres are inflated to the indicated pressure. In addition, the system is UNABLE to warn the driver of sudden damage to the tyres caused by external objects/ agents.	Tyre pressure and temperature monitoring system	Page 40
Before calibrating the system, make sure that the tyre pressures correspond to the indicated pressure values (see page 21). If this is not the case, the system may issue wrong low pressure indications.	Tyre pressure and temperature monitoring system Tyre puncture	Page 44
	About your vehicle	
Always check that the door is closed properly to prevent it from opening while driving.	Door opening and closing Door locking and opening from the inside	Page 52

Extreme caution required	Subject	Page ref.
Always check that the lid is closed properly to prevent it from opening while driving.	Luggage compartment opening and closing Closing	Page 53
Always turn off the engine during refuelling. Take extreme care when removing the cap. Do not smoke or use open flames when refuelling; The following can be harmful for your health: - fuel coming into contact with your skin - inhaling fuel vapours.	Fuel tank door and cap opening and closing	Page 55
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 57
If the high beam control is activated, the high beams will turn on every time the lights are activated automatically. We recommend therefore that you turn them off every time the twilight sensor deactivates the external lights.	Lighting Automatic activation and deactivation	Page 59

Extreme caution required	Subject	Page ref.
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 the lights on manually, and also the rear fog lights if necessary.	Lighting Automatic activation and deactivation	Page 59
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 59
Stop the vehicle avoiding sharp braking. Do not drive further and contact the Ferrari Service Network immediately.	Instruments and gauges TFT display warning lights	Page 72
The vehicle can still be driven at low speed (max. 40 km/h – 25 mph), to free the road.	Instruments and gauges TFT display warning lights	Page 72
In this condition, do not activate “SPORT” mode.	Instruments and gauges TFT display warning lights	Page 73
Stop the vehicle avoiding sharp braking. Do not drive further, check the fluid level in the tank and contact the Ferrari Service Network immediately.	Instruments and gauges Warning lights	Page 75
Stop the vehicle avoiding sharp braking. Do not drive further and immediately contact the Ferrari Service Network.	Instruments and gauges Warning lights	Page 75
The vehicle can still be driven at low speed (max. 40 km/h – 25 mph), to free the road.	Instruments and gauges Warning lights	Page 75

Extreme caution required	Subject	Page ref.
Danger of rear wheels locking and risk of spinning. Stop the vehicle avoiding sharp braking. Do not drive further and contact the Ferrari Service Network immediately.	Instruments and gauges Warning lights	Page 75
The vehicle can still be driven at low speed (max. 40 km/h – 25 mph), to free the road.	Instruments and gauges Warning lights	Page 75
Do not start the windscreen washer during the cold months until the windscreen has warmed up. If it has not warmed up, the liquid could freeze on the glass and block the view.	Windscreen washer/wipers and headlight washer Windscreen washer	Page 82
Before cleaning the front windscreen (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 windscreen, do not activate the rain sensor to avoid damaging the wiper motor and/or blades.	Windscreen washer/wipers and headlight washer Rain sensor	Page 83
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 (centre and sides).	Driving the vehicle	Page 84

Extreme caution required	Subject	Page ref.
Use unleaded fuel only! Using leaded fuel would permanently damage the catalytic converters.	Driving the vehicle Recommended lubricants and fluids	Page 84
If the failure warning light continues flashing without going off, turn off the system and restart. If the failure persists, contact an Authorised Ferrari Service Centre to have the necessary checks performed.	Driving the vehicle Starting and driving the vehicle (F1) System starting	Page 85
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 85
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 86
Hold the brake pedal down while starting the engine.	Driving the vehicle Starting and warming up the engine (F1)	Page 86
Use 1st gear for parking or for starting uphill.	Driving the vehicle Starting the vehicle (F1)	Page 87
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” manoeuvre.	Driving the vehicle Starting the vehicle (F1)	Page 88

Extreme caution required	Subject	Page ref.
Do not start the vehicle before the display has turned off. Never leave the vehicle with the gearshift in N but engage a gear (1st or R), check that the display does not flash 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 90
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 90
Use Launch Control only on a closed loop race track. IN ADDITION, Launch Control must only be used if the driver is thoroughly acquainted with the vehicle and has full control over it. Control and knowledge of the vehicle can only be achieved by attending the driving courses organised and held by Ferrari.	Driving the vehicle and “Launch Control” strategy for performance starting	Page 91
When the Launch Control strategy is used, the CST system is temporarily deactivated.	Driving the vehicle “Launch Control” strategy for performance starting	Page 91
Use 1st gear for parking or for starting uphill.	Driving the vehicle Starting the vehicle (CM) When the engine is on	Page 93

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 stabilise the temperatures.	Driving the vehicle While driving (CM)	Page 93
Do not travel downhill with the engine off, as the servo brake will no longer function due to the vacuum decrease and thus after a few braking attempts, the system will become totally inefficient.	Driving the vehicle While driving (CM)	Page 93
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 94
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 manoeuvre	Page 94

Extreme caution required	Subject	Page ref.
However, the driver remains fully responsible for parking manoeuvres and in other potentially dangerous situations. The system has been designed only as a supplementary aid during parking manoeuvres, 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 manoeuvres.	Driving the vehicle Parking manoeuvre	Page 95
The driver is fully responsible for parking and other potentially dangerous manoeuvres. During these manoeuvres, always make sure there are no people (especially children) or animals in the manoeuvring area. The parking sensors must be considered an aid for the driver who, in any case, must never take less care during potentially dangerous manoeuvres, even if they are performed at low speeds.	Driving the vehicle Parking manoeuvre Failure warnings	Page 96

Extreme caution required	Subject	Page ref.
Drunk driving, or driving under the influence of drugs or certain medicines is extremely dangerous for yourself and others. Travelling 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 loose floor mats sit 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 97

Extreme caution required	Subject	Page ref.
If the road is wet, reduce your speed to avoid “aquaplaning” phenomena, during which the tyre 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 tyre 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 tyre. 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 98
On stretches where visibility is good, turn off the rear fog light, as it is very bright and may be annoying for the occupants of the vehicles behind you.	Driving the vehicle Safe driving Driving in fog	Page 99
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 102
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 the Ferrari Service Network.	Handbrake lever	Page 103
Never adjust the seat while driving, you may lose control of the vehicle.	Adjustments Seat adjustments	Page 103

Extreme caution required	Subject	Page ref.
Do not adjust the steering wheel when the vehicle is moving.	Adjustments Steering wheel adjustment	Page 105
Keep the glove compartment closed while driving.	Passenger compartment accessories Glove compartment	Page 111
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 tyre repair and inflation kit ONLY for the time necessary for the operation.	Passenger compartment accessories Ashtray	Page 112
	Advice for Emergency situations	
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 tyre, never lie under the vehicle raised on the jack); - have the minimum and specific skills required for working with electrical parts/components (e.g., the battery).	Advice for Emergency situations	Page 116
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 80 km/h - 50 mph). The kit is to be used to temporarily repair only one tyre punctured by small objects: the kit may not be useful in the case of large punctures or tearing.	Toolkit Tyre inflation and repair kit for emergency situations	Page 116

Extreme caution required	Subject	Page ref.
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 Tyre inflation and repair kit for emergency situations	Page 117
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 138
The spare wheel is not equipped with the tyre 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 Centre of the Ferrari Service Network.	Replacing a wheel Replacing a wheel	Page 138
The spare wheel CANNOT be fitted if the vehicle is equipped with CCM brake discs.	Replacing a wheel Replacing a wheel	Page 138
The applicable driving and traffic regulations must be followed when the vehicle is being towed.	Towing hook	Page 139
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 139
The system can be reactivated by pressing the button on top of the switch.	Fuel inertia switch	Page 139

Extreme caution required	Subject	Page ref.
Never disconnect the battery from the electrical system when the engine is running. Before disconnecting the battery, lower the side windows by at least 2-3 cm (0.78–1.18 in.) to avoid damaging the weather strips when opening and closing the doors.	Battery master switch Disconnecting the battery	Page 140
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 with the greatest care; do not close them again until the windows can be lowered.	Battery master switch Disconnecting the battery	Page 140
The battery does not need refilling with distilled water or sulphuric acid.	Checking the battery	Page 141
Keep the battery away from sources of heat and do not use open flames or create sparks near it.	Checking the battery	Page 141
Arrange the battery conditioner in a well visible position, away from heat sources and children's reach.	Checking the battery Battery conditioner	Page 141
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 142
Do not use the cigarette lighter seat as a power socket for electrical devices.	Checking the battery Recharging the battery	Page 142

Extreme caution required	Subject	Page ref.
If the temperature is high: The driver must: - decelerate immediately; - immediately go to the nearest service workshop to have the malfunction causing the problem repaired. If the temperature is extreme: 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 have it towed to a service centre to have the malfunction repaired. 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 142
When the warning light "Engine control system failure" comes on, engine performance may be considerably reduced. Drive carefully, avoiding sudden accelerations and high speeds. Contact the Ferrari Service Network immediately.	Engine malfunction alarm devices	Page 143

Extreme caution required	Subject	Page ref.
In order to ensure the quality of the components and accurate installation, we recommend that you have the procedure performed by an authorised Ferrari Service Centre. To ensure proper breaking-in of the pads following replacement, avoid sudden and sharp braking until the new pads have duly run-in, after about 300 km (186 mi).	Replacing the brake pads and brake discs Replacing the brake pads	Page 143
	Care of the Vehicle	
The Warranty and Service Book also contains special blank spaces where the Authorised Service Centres can register the regular maintenance services performed, as indicated in the maintenance schedule.	Warranty and Service Book	Page 146
If oil is not checked within 3 minutes (instead of 2 minutes, as indicated above), repeat steps B and C before checking.	Level checks Engine oil	Page 147
If oil is not checked within 3 minutes (instead of 2 minutes, as indicated above), repeat steps B and C before checking.	Level checks Engine oil	Page 147
As the first check was carried out within the 2nd and 3rd minutes, the second oil check must also be performed within the same time period. For instance, if the first check was carried out after 2 min. 30 sec., the second check must also be carried after approximately 2 min. 30 sec..	Level checks Engine oil	Page 147
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 148
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 149

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 topping up.	Level checks Brake/clutch fluid	Page 150
Inflating the tyres to a pressure differing from that prescribed (see table on page 21) will render the monitoring system inefficient.	Wheels and tyres How to use the tyres	Page 151
We recommend that you replace the tyres every 4 years in case of normal use. Frequent use in maximum load conditions and at high temperatures may accelerate ageing.	Wheels and tyres How to use the tyres	Page 151
The tyres are of the “directional” type and there is an arrow marked on their side wall to indicate the direction in which they must rotate or which side is the outer side. In the case of replacement, maximum performance levels can only be ensured if the rotation direction corresponds with the direction indicated by the arrow. Tyres on the same axle must always be replaced in pairs.	Wheels and tyres How to use the tyres	Page 151
Drive carefully on wet roads to reduce the risk of “aquaplaning”.	Wheels and tyres How to use the tyres	Page 151
Do not use aggressive substance to clean up the windows. Using aggressive substances may permanently damage some parts of the body beyond repair.	Cleaning the vehicle Cleaning of the exterior	Page 152
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 152

Abbreviation	Meaning
ABS	(Anti-Blockier-System) The ABS system prevents wheel locking during braking and allows the driver to maintain full steering control over the vehicle.
A.C.	Air Conditioning
ASR	(Antriebs-Schlupf-Regelung) 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	Multi-function 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 spiral.
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.
Launch Control	Strategy for performance standing starts.
VDC	Vehicle dynamics control using the braking system and engine torque.

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Equipment and optionals of the Ferrari vehicle models may vary because of specific legal and market requirements. The information contained in this publication is therefore not binding in any way.

Ferrari reserves the right to make any modification to the vehicle models described in this manual, at any time, for either technical or commercial reasons.

Contact the nearest Ferrari Dealer for any further information you may require.

For efficiency and safety, as well as for preserving the value of the vehicle, it is advisable not to modify its equipment unless you use parts of the approved type.

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