

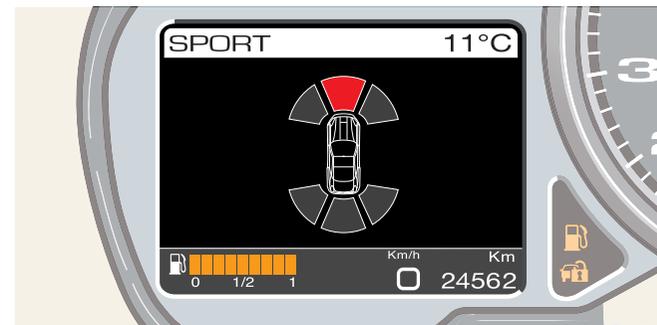
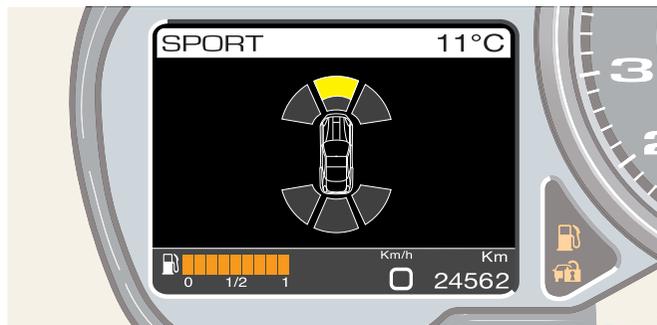
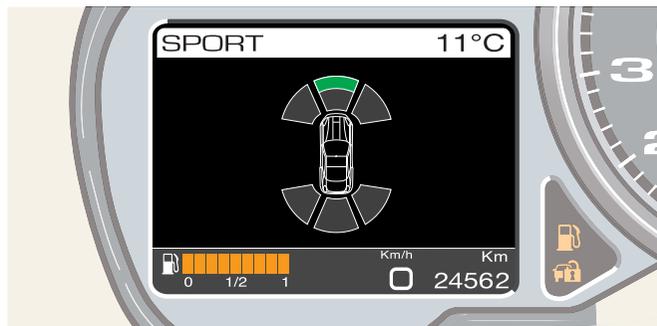


The vehicle symbol and sensor detection zones appear on the TFT display: these zones indicate which part of the vehicle is approaching an obstacle (if front or rear and if left, right or central) and the distance from the obstacle (maximum, medium or minimum).

If an obstacle is detected at maximum distance in the central front part, it will be displayed as shown below (green).

If an obstacle is detected at medium distance in the central front part, it will be displayed as shown below (orange).

If an obstacle is detected at minimum distance in the central front part, it will be displayed as shown below (red).





If the front sensors are deactivated or not present, the display does not show the symbols in the front. In the same way, if front sensors are fitted and the rear ones are not activated, the display only shows the symbols in the front. If all the sensors are activated, the system can give several pieces of information at the same time: if an obstacle is detected at a maximum distance in the front central part and at a minimum distance in the rear right part, it will be displayed as shown below.

If the parking sensor system symbols are being displayed and an event occurs that needs to be displayed as an icon and/or special message, the symbol is moved from the centre of the display to the right as shown below.

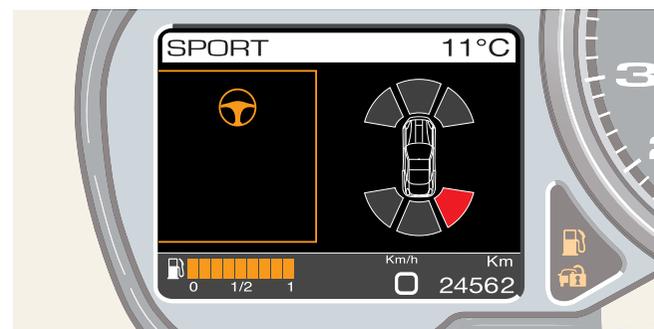
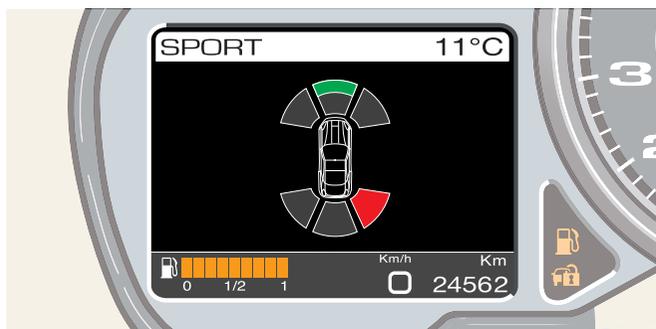
**Important note**



If there is a higher priority failure such as a tyre puncture, the TFT display will indicate this failure and the parking sensor symbols will disappear.

3

Once the failure has been displayed, the parking sensor symbols will go back to the centre of the display.





#### *Simultaneous display of parking sensors and other systems*

If other systems are activated when the parking sensors are being displayed, the TFT display displays the sensors on the right of the screen and the other active system on the left.

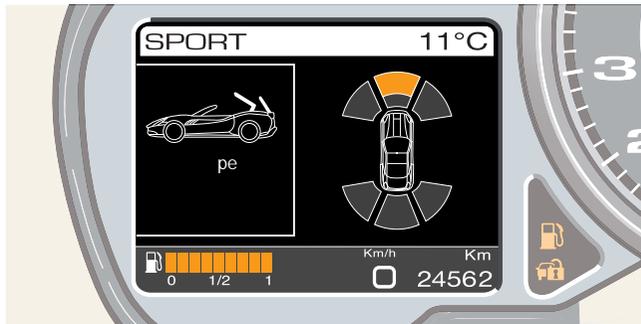
If the hard top is operated, the parking sensor display is deactivated as the sensors will be detecting obstacles that may damage the luggage compartment.

#### *Cleaning the sensors*

When cleaning the sensors, be very careful not to scratch or damage them and avoid using dry, rough or hard cloths.

The sensors must be washed with clean water and car shampoo added if necessary.

In car washes that use steam jet or high pressure water cleaning equipment, quickly clean the sensors keeping the nozzle at a distance of over 10 cm.



For the repainting of bumpers or retouching the paintwork in the sensor area, contact the FERRARI SERVICE NETWORK. If paint is applied incorrectly, it may jeopardise proper operation of the parking sensors.

#### *Sensing range*

The sensors allow the system to control the rear and front of the vehicle: their position covers the central and side areas of the vehicle.

If an obstacle is in the central area, it is detected at distances of approximately 1.40 m depending on the type of obstacle and its size.

If an obstacle is in the side area, it is detected at distances of less than 0.8 m.

#### *Failure signals*

The system ECU checks all the components each time the reverse gear is engaged.

A parking sensor system failure is indicated on the TFT display.

If there is a failure signal, stop the vehicle and turn the ignition key to position 0 (Stop). Then try and clean the sensors or move them away from any sources of ultrasound emissions (e.g. pneumatic brakes of lorries or pneumatic drills) and turn the ignition key to position II again. In this way, if the cause of malfunctioning has been corrected, the system will start operating correctly again and the failure buzzer will stop.

If the failure buzzer continues, contact the FERRARI SERVICE NETWORK to have the system checked.





**Important note** 

Obstacles that may damage the luggage compartment (obstacles at distances of less than **400 mm**, see page 123) are detected only once by the rear sensors prior to hydraulic operation of the hard top. Any obstacles that appear after hard top activation will not be detected.

**Important note** 

The sensors are able to detect obstacles with reasonably large, even surfaces (e.g.: poles with diameters of over 60 mm, walls, barriers, trees). Detection is not optimum with obstacles with sharp projections or uneven surfaces.

**Important note** 

When parking and operating the retractable hard top, always be very careful to avoid obstacles that may be above or below the sensors.

**Important note** 

Objects placed close to the rear part of the vehicle are not always detected by the system and may therefore damage the vehicle or be damaged themselves.

**Important note** 

The signals sent by the sensors may also be affected by damage to the sensors caused by dirt, snow or ice on the sensors or by ultrasound systems (e.g.: pneumatic brakes on lorries or pneumatic drills) in the vicinity.

**Warning** 

However, the driver has full responsibility for parking manoeuvres and in other potentially dangerous situations. The system has been designed only as an aid during parking manoeuvres and the operation of the retractable hard top, since it detects obstacles that are outside the driver's range of visibility.

The sensors are therefore not a substitute for the driver's care and attention when parking and checking for the presence of persons or objects.

**3**



## Fault display

### *Fault visualisation logic*

When a fault occurs, the corresponding warning light (if present) comes on on the panel whereas a description of the fault (if available) and the relevant symbol (if available) are displayed on the left TFT display. The message appears on the display as soon as the warning light (if present) comes on and the main screen page that is displayed at that time is reduced.

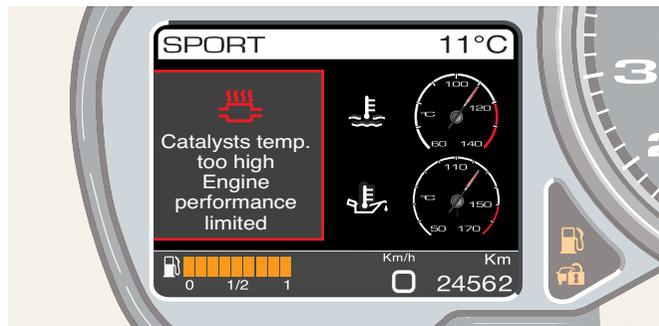
The fault remains on the display for 20 seconds. When the display cycle ends, if the fault does not have a special warning light on the panel, the symbol remains minimised in area **D** of the display (see page 131) until the cause of malfunctioning has been resolved. In area **B** the main screen page is displayed in “maximum” size.

When the display cycle ends, if the fault has a special warning light on the panel, the screen page prior to the anomaly is displayed again, and the symbol is not minimised in area **D**. The warning light on the panel stays on until the cause of malfunctioning has been resolved.

If the fault is resolved within 20 seconds, it remains displayed and the warning light remains lit for 2 seconds.

### *“ESCAPE” function*

Displaying a fault on the screen can be interrupted by pressing and quickly releasing the OK button with “ESCAPE” function. When the OK button is pressed, the screen page that was displayed prior to the event reappears. If the fault does not have a special warning light on the panel, the symbol remains minimised in area **D** until the cause of malfunctioning has been resolved.





### *Fault priority levels*

The simultaneous display of several faults follows a logic that depends on the priority level assigned to it.

Priority level 0 - Extremely critical fault.

Priority level 1 - Critical fault.

Priority level 2 - Non-critical fault.

When several fault events occur at the same time, faults with priority level 0 are displayed first, followed by priority level 1 and then priority level 2. The information on the various faults is displayed in turn for 5 seconds each. In any case, the total display time for each fault is never less than 20 seconds.

If a fault message with priority level 1 or 2 is being displayed, and a new anomaly with the same priority level occurs, the last fault message is only displayed after the first fault message has been displayed for at least 2 seconds. If, on the other hand, another new priority level 0 fault occurs, this is displayed immediately.

### *Indication of failure of turn indicators and running lights*

A failure of the running lights (front and/or rear) and turn indicators (front and/or rear) is indicated in the same way as other faults but the vehicle symbol with the faulty running light or turn indicator indicated in red is displayed together with a description of the failure instead of the “External lights failure” symbol (see page 149). When the display cycle ends or the **OK** button with “ESCAPE” function has been pressed, the “External lights failure” symbol is minimised.

3





## List of TFT display symbols and instrument panel warning lights

TFT	Warning light	Description and warnings
	 orange	<b>Alarm system failure</b> Indicates a fault in the alarm system (priority level 1). The system is not programmed (priority level 2). Failure and system not programmed (priority level 1). Alarm system failure (priority level 2). Break-in attempted (priority level 2).
	 orange	<b>Fuel level low</b> Indicates that the fuel level is too low (priority level 2).
	 red	<b>Battery conditioner connected</b> When the instrument panel is on, it indicates that the battery conditioner is connected (priority level 0).
	 orange	<b>Inertia switch</b> Indicates activation of the inertia switch following an accident and the resulting cut-out of the fuel supply (priority level 0).

Contact the FERRARI SERVICE NETWORK.

The hazard warning lights are also automatically activated.



### Alternator failure

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



### Oil temperature

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



### Adaptive light system failure

orange  
Indicates an adaptive light system failure (priority level 2).



### Engine coolant temperature

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

Turn off the engine and contact the FERRARI SERVICE NETWORK.



### Oil pressure

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

Turn off the engine and contact the FERRARI SERVICE NETWORK.

Indicates a pressure sensor failure (flashing) (priority level 2).





orange



**Engine diagnostic system (EOBD) failure**

While the engine is running, it indicates a fault in the emission control system and in the ignition/injection system.  
After turning the ignition key to position II, it remains on for a self-check for a few seconds after the engine has started.



green



**Cruise Control**

Indicates that the Cruise Control has been activated/deactivated.



**Running lights**

green

Indicates that the running lights or low beam lights are on.



orange

**Stop lights failure**

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



orange

**External lights failure**

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



orange

**Number plate lights failure**

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



**Rear fog lights**

orange

Indicates a rear fog light failure.



orange

**Twilight sensor failure**

Indicates a twilight sensor failure (priority level 2).



red

**Hard top failure**

Indicates a failure in the retractable hard top (priority level 0).

The type of failure is specified by a special message on the display.



blue

**High beams**

Indicates that the high beam lights are on. The light also comes on when flashing.



green

**Right turn indicators**

Indicates that the right turn indicator is on.



green

**Left turn indicators**

Indicates that the left turn indicator is on.



green

**Hazard warning lights**

Simultaneous switching on of the right and left turn indicator warning lights indicates that the hazard warning lights are on.



red

**Catalytic converter temperature**

Indicates that the catalytic converter temperature is too high: stop the vehicle (priority level 0).

Contact the **FERRARI SERVICE NETWORK**.

3



orange

Indicates that the catalytic converter temperature is very high: reduce speed until the symbol goes out (priority level 1).

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



orange

*Checking the engine oil level*

Indicates a low engine oil level.



orange

*Seat heating*

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



orange

*Power steering failure*

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

Contact the FERRARI SERVICE NETWORK.



orange

*Low windscreen washer fluid level*

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



orange



orange

*ABS*

Indicates an ABS system failure (priority level 1).

The standard braking system is still functioning.

Contact the FERRARI SERVICE NETWORK.



orange



orange

*ESC off*

Symbol and warning light indicate that the ESC system has been deactivated (priority level 1).

The symbol is displayed for 5 seconds together with the "ESC off" message.



orange



orange

*ESC system failure*

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

**Warning**



Stop the vehicle avoiding sharp braking. Stop driving and contact the FERRARI SERVICE NETWORK immediately.

**Warning**



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



orange

*ESC system activation (flashing warning light)*

Indicates that the ESC system has been activated (priority level 1).

*CCM brake discs worn*

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



orange

Contact the FERRARI SERVICE NETWORK.



orange



orange

**TPMS**  
 Indicates a puncture in one or more standard tyres (priority level 0) or Run Flat tyres (priority level 2).  
 With the warning light in flashing mode for a maximum of 90 seconds after which it remains on in fixed mode, it indicates:

A failure in the TPMS (priority level 2).  
 TPMS temporarily inactive (priority level 2).



red



red

**Airbag system failure (flashing warning light)**  
 Indicates a system failure (priority level 0).

Contact the FERRARI SERVICE NETWORK.



red

**Driver-side seat belt not fastened**  
 Indicates that the driver-side seat belt has not been fastened (priority level 0) together with an acoustic signal lasting 90 sec.



red



red

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



red

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



red



red

**Brake malfunction**  
 Indicates that the brake fluid level is low (priority level 0).  
 Indicates an EPB (electric parking brake) failure (priority level 0).  
 Indicates an overhaul of the Parking Brake system (priority level 0).



red



red

Indicates an EBD system failure (priority level 0).



orange



orange

**Rain sensor failure**  
 Indicates a rain sensor failure (priority level 2).



orange

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

Contact the FERRARI SERVICE NETWORK.



orange

**Generic failure**  
 Indicates an airbag warning light failure (priority level 2).  
 Indicates a Manettino failure (priority level 1).  
 Indicates that the electrical system is faulty (priority level 2).

3



green

*TPMS*

Indicates that calibration of the TPMS has been activated.



red

*Brake pad wear*

Indicates excessive wear of the brake pads (priority level 2).



orange

*Parking sensor failure*

Indicates that the parking sensor system is faulty (priority level 2).



green

*Scheduled Maintenance (Service)*

Indicates the Scheduled Maintenance deadline.



orange

*AVH system*

Indicates an AVH system failure (priority level 0).



red



red

*Parking brake*

Indicates that the parking brake is applied.



*Ice hazard*

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

Drive carefully in these conditions and slow down since tyre grip is significantly reduced.

**Warning**



In this condition, do not activate the "SPORT" mode.



red



red

*Gearbox failure*

Indicates a system failure (priority level 1).

Contact the **FERRARI SERVICE NETWORK**.



### Electronic speedometer

It indicates the vehicle speed.

At a speed between 0 and 5 km/h, the indicator may remain idle.  
With higher speeds, it indicates the speed measured.

### Rev Counter

The electronic rev counter indicates the engine RPM. Avoid engine speeds in the red sector.

### Gearbox display

The display which gives information on dual clutch transmission (DCT) is found to the bottom right of the rev counter; with the ignition key in position **II**, it displays the following information:

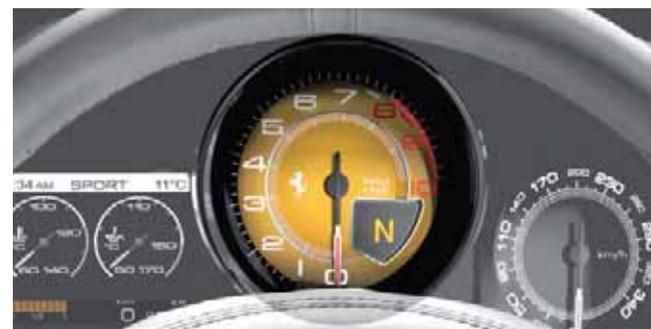
- Gear engaged.
- Indication of “Automatic gearbox” mode.
- Indication of “Auto easy exit gearbox” mode.
- Indication of gearbox in “Parking” mode.
- Indication of Launch Control activated.
- Indication of AVH system activated.

3

#### Important note



Information on the gearbox is useful in all operating conditions.





#### *Gear engaged*

The gearbox display shows the number or letter indicating the engaged gear in the centre.

N	Neutral
R	Reverse
1	1 <sup>st</sup> gear
2	2 <sup>nd</sup> gear
3	3 <sup>rd</sup> gear
4	etc.

When the key is turned to off, the display remains on for at least 3 seconds and displays the engaged gear. If the control panel reads N (Neutral), the letter N is displayed and a buzzer will sound.

#### *Indication of "Automatic gearbox" mode*

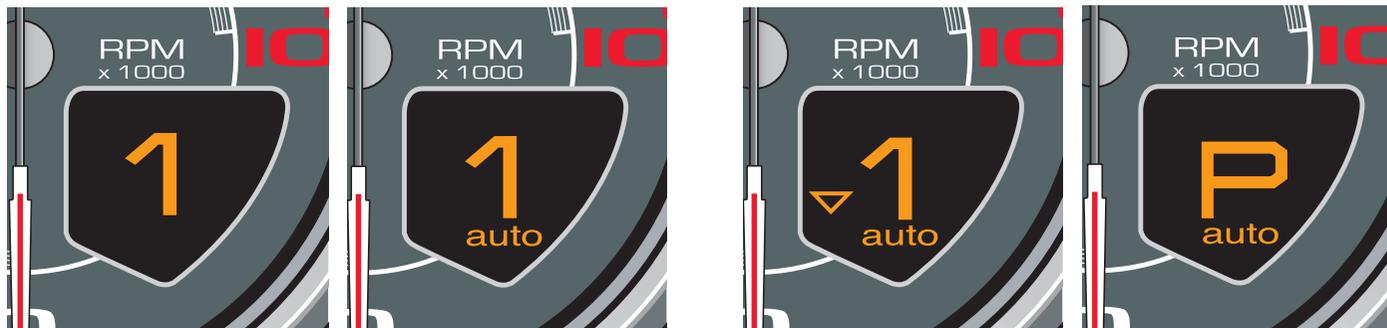
When the gearbox is used in "automatic" mode (see page 172), the word "auto" appears in the bottom of the gearbox display together with the number or letter indicating the engaged gear.

#### *Indication of "Auto easy exit" mode*

When the gearbox is used in "Auto easy exit" mode (see page 172), the word "auto" appears in the bottom of the display together with a small "arrow" pointing downwards on the left.

#### *Indication of gearbox in "Parking" mode*

When the gearbox is in "Parking" mode, i.e. the Park Lock gearbox locking device is activated (see page 179), the letter "P" appears in the centre of the gearbox display.





*Indication of Launch Control activated*

When the gearbox is used in “manual” mode and the Launch Control function is requested by pressing the special button on the centre console (see page 180), the word “launch” appears in the bottom of the gearbox display. The word remains while the function is activated.

*Indication of AVH system activated*

In certain circumstances, when the AVH system is activated (see page 184), the word “HOLD” appears in the top of the gearbox display.

3





### Turbo Performance Engineer (TPE) display

The TPE display can be activated by pressing the touch-sensitive ring for 3 seconds. Each time it is pressed, it cyclically passes through its 5 functions: time displayed in 12-hour format, external temperature displayed in degrees Celsius or Fahrenheit, pressure reading of turbo in bar or psi, and two screens that display the main characteristics of the turbo engine.

- **TURBO**: indicates the working pressure of the turbocharger in bar or psi.
- **TURBO EFFICIENCY (TE)**: indicates the percentage of maximum turbo efficiency (seen as the maximum torque obtainable by the car for a given fuel consumption level or specific amount of fuel used) available to the driver depending on the number of revs.





- **TURBO RESPONSE (TR)**: indicates the percentage of maximum engine response available to the driver depending on the number of revs. For instance, using the gearbox and accelerator pedal to push the engine to over 4000 RPM gives a very high % of TR (80-90%); pressing the accelerator pedal hard down will give instant engine response and acceleration.

- **Time**: displays a 12-hour format digital clock.

- **External temperature**: displays a digital thermometer, the temperature can be displayed in degrees Celsius or Fahrenheit.

3





## Roof panel controls

### *Door lock/unlock*

Both doors can be locked by activating/deactivating the “LOCK/UNLOCK” **H** button. For further information, see page 86.

### *Deactivating the anti-lift alarm*

Press button **L** to deactivate the anti-lift alarm system. For further information, see page 18.

### *Front parking sensors (optional)*

On vehicles fitted with front and rear parking sensors, the front parking sensors are activated/deactivated by pressing button **M**. When the front parking sensors are activated, the light on the button comes on.



## Horn control

The horn can be used by pressing the horn symbol, on either side of the steering wheel upper spokes.





## 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.

### *Driving mode control switch “Manettino”*

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.

### Important note



In the event of a failure of one of the onboard systems, signalled by the relative warning light on the TFT display, the switch moves to a “recovery” position, but still allows the vehicle to be driven. In these cases, contact the FERRARI SERVICE NETWORK.

3





*Driving modes that can be selected with “Manettino”*

### **COMFORT mode**

This is recommended for everyday driving.

### **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 icon in the dedicated area on the TFT display.

### **ESC OFF mode**

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

When the system has been deactivated, a warning light comes on on the instrument panel (see page 150); the symbol appears on the TFT display for 5 seconds together with the “ESC off” message.

When the ESC system has been activated, a warning light flashes on the instrument panel (see page 150).

### **Warning**



In low- to medium-grip conditions (e.g. wet, icy, sandy roads), do not deactivate the ESC system and do not select **SPORT** mode.

### **Important note**



When “ESC OFF” mode is selected, the Manettino lever automatically goes back to “SPORT” mode: this occurs because each time the engine is started, the ESC system is reactivated.

### **Important note**



When the brake pedal is pressed, traction control is activated via the VDC system (vehicle dynamics control via the braking system).



### “UP” shift paddle

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

### “DOWN” shift paddle

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



### Windscreen and headlight washer/wipers

#### Important note



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

The windscreen wipers have 4 different speeds:

**OFF** Windscreen wipers stationary.

**AUTO** The rain sensor adjusts the windscreen wiper timing to the intensity of the rain.

**1** Slow continuous operation.

**2** Fast continuous operation.

With the wipers stationary (**OFF**), quickly pressing lever **A** towards the dashboard activates the windscreen wipers in **AUTO** speed.

With the wipers on, quickly pressing the lever towards the dashboard increases windscreen wiper speed (from **AUTO** to **1**, from **1** to **2**).



3



## Windscreen washer

To activate the windscreen washer, keep lever **A** pulled.

When the lever is released, the windscreen wiper returns to the preset speed.

### Warning



Do not start the windscreen washer during the cold months until the windscreen has warmed up. If it has not warmed up, the fluid could freeze on the glass and block the view.

## Headlight washer

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 symbol on the left TFT display.

### Rain sensor

The rain sensor automatically adjusts the windscreen wiper timing to the intensity of the rain. The system is activated by moving the windscreen wiper to **AUTO**.

When operating automatically, the wiper speed ranges from a minimum intermittent setting (one wipe every 5 seconds approx.) when the windscreen is damp to fast continuous operation in heavy rain.

### Important note



The rain sensor function is deactivated by turning the ignition key to position **0** and leaving the windscreen wiper in position **AUTO**. To reactivate the system at the next key-on, set the wipers to **AUTO** by quickly pressing the lever **A** towards the dashboard.

### Warning



Before cleaning the front windscreen (for example in service stations) make sure the rain sensor is deactivated or that the key is in 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

If there is a rain sensor failure, indicated by a special symbol on the left TFT display (see page 151) while the windscreen wiper is set to **AUTO**, the wipers will be set to intermittent operation with one wipe every 1 second approximately. If this is the case, we recommend that you deactivate the rain sensor and turn on the wipers, if necessary, in continuous mode.

### Important note



If this occurs, contact the **FERRARI SERVICE NETWORK** as soon as possible.





## Cruise control

The Cruise Control is an electronic device designed to help the driver drive at a constant speed of over 50 km/h without having to keep the accelerator pedal pressed.

### Important note



We recommend only using the device on long, dry stretches of road requiring few gear changes (e.g. motorways).  
Do not use the device for city driving.

### Important note



**PIT SPEED** is a term taken from the motor sports world used by **FERRARI** to indicate the speed memorised using the device and does not endorse inappropriate behaviour on the road which does not comply with Traffic Regulations.



### Activating the device

To activate the device, hold down control **A** for at least 2 seconds.

When the system is activated, a warning lamp lights on the instrument panel (see page 149), and the message “Cruise Control ON”, together with the specific symbol, are shown for 5 seconds on the left hand TFT display.

The device cannot be activated when reverse or 1<sup>st</sup> gear are engaged.

When going down slopes with the device on, the vehicle speed may be slightly higher than the memorised speed.

### Memorising the speed

Proceed as follows:

- with the device activated, bring the vehicle to the desired speed by pressing the accelerator pedal;
- turn control **A** clockwise (+) for at least 3 seconds and then release it: the speed of the vehicle is memorised and you can release the accelerator pedal.

If necessary, you can accelerate by pressing the accelerator pedal: when the pedal is released, the vehicle will return to the previously memorised speed.

3



#### *Resetting the memorised speed*

If the device has been turned off by pressing the brake pedal, the memorised speed can be reset as follows:

- gradually accelerate until the vehicle reaches a speed which is close to the memorised speed;
- quickly press control **A**.

#### *Increasing the memorised speed*

This can be done in two ways: by pressing the accelerator and memorising the new speed reached or by turning control **A** clockwise (+).

One turn of the control corresponds to an increase in speed of about 2 km/h; if the control is kept turned on the other hand, the speed continually increases.

#### *Reducing the memorised speed*

This can be done in two ways: by deactivating the device and then memorising the new speed or by turning control **A** counterclockwise (-).

One turn of the control corresponds to a decrease in speed of about 2 km/h; if the control is kept turned on the other hand, the speed continually decreases.

#### *Deactivating the device*

Hold down control **A** for at least 2 seconds or turn the ignition key to position **0**. The device is also automatically deactivated by pressing the brake pedal.

When it is deactivated, the warning light on the instrument panel goes out and a “Cruise Control OFF” message accompanied by a special symbol appears on the left TFT display for 5 seconds.

#### **Warning**



While driving with the device activated, do not put the vehicle into “N” (neutral).





## 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 undergo a settling process, basically during the first hours of operation.

### *Engine and transmission*

Avoid exceeding 5,000 RPM for the first 1,000 km.

After starting, do not exceed 4,000 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.

### Warning



#### 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 (central and sides).

3



## 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.

### Important note



In any case, it is advisable to perform these checks at least every 1000 km and always comply with the maintenance schedule.

### It is also advisable to:

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

### Refilling

#### Warning



Use unleaded fuel only!

Using leaded fuel would permanently damage the catalytic converters.

For specifications and quantities of lubricants and fluids, refer to the “Refilling” table on page 36.



## Starting and driving the vehicle

### System start-up

After turning the ignition key to position II (key-on), the TFT display is activated on the instrument panel and system diagnosis is performed. During diagnosis, which lasts 5 seconds, a check is performed on the warning lights on the panel and the presence of any faults is checked.

If diagnosis detects any errors, they are only displayed once the 5 seconds required for the check have elapsed. The cases listed below are an exception and errors are displayed as soon as the key is turned to on, even during diagnosis:

- Low engine oil pressure (see page 148).
- Inertia switch triggered (see page 148).
- Semi-automatic gearbox safety warnings.
- Deactivation of EPB warning (see page 183).

If the next scheduled maintenance deadline is approaching, each time the key is turned to on, information on scheduled maintenance is automatically displayed after diagnosis. For further information, refer to the "Maintenance Schedule" paragraph on page 252.

Finally, each time the key is turned to on, the message for activation of the alarm when an intrusion has been attempted (see page 19) is also displayed (after diagnosis).

Once the system check has been completed, the gearbox display is activated and the letter "P" (Parking) or "N" (Neutral) will be displayed.

### Important note



#### BEFORE YOU DRIVE

If the warning light **A** does not turn off after diagnosis, indicating a fault in the gearbox (which is also indicated by the symbol and specific message on the TFT display - see page 152), CONTACT the FERRARI SERVICE NETWORK.

3





### Important note

The vehicle is equipped with an electro-hydraulically controlled gearbox system operated by means of paddles on the steering wheel.

The default setting for the DCT gearbox is always “Automatic” mode (see page 172).

Every time the vehicle is started, the DCT gearbox is in “Auto easy exit” mode (see page 172) unless the vehicle was in “Automatic” mode when the engine was turned off.

To exit the “Auto easy exit” mode operate the **UP** and **DOWN** paddles (while the vehicle is moving) or press the **AUTO** button on the centre console.

### Important note

Immediately release the **UP** and **DOWN** paddles or button **R** after the gearbox display shows that the gear has been engaged; a prolonged manoeuvre would cause the gearbox failure warning light to turn on (see page 152) and triggering of the buzzer.

### Important note

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 the engine

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

- Make sure that the electric parking brake is applied and that the doors are closed.
- Hold the brake pedal down when starting the engine.

#### Warning



Do not press the accelerator pedal.

- Turn the ignition key to position **II** and wait for the gearbox display to come on.
- Press the **ENGINE START** button (see page 159) and release it as soon as the engine starts.

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

If the engine does not start, turn the key back to position **0** and wait for the gear display to go off before retrying.

#### Warning



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.

### Warming up the engine

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

### Starting the vehicle

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

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

With the engine running and the vehicle stationary, you can change directly from **1<sup>st</sup>** or **2<sup>nd</sup>** gear to “**R**” (reverse) by pressing **R** on the centre console and from reverse to **1<sup>st</sup>** by moving the **UP** paddle.

3





### Warning



If the **UP** and **DOWN** paddles are not working, the message “Depress brake pedal and press LAUNCH to engage gear” will appear on the TFT display; you can therefore engage the gear by pressing the **LAUNCH** button on the centre console (see page 180) and the brake pedal.

In these cases, the “Launch Control” function is not available.

If the engaged gear was **R**, the **LAUNCH** button must be pressed twice to engage **1<sup>st</sup>** gear.

### Important note



When reverse is selected, an acoustic safety signal beeps intermittently as long as “R” is engaged.

If the system automatically selects **2<sup>nd</sup>** gear when attempting to shift from **R** to **1<sup>st</sup>** gear, this indicates that **1<sup>st</sup>** gear has jammed. Therefore, this is not a malfunction, as it falls within the system operating logic. For the same reason, when shifting from **1<sup>st</sup>** 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**”.

### Important note



If you allow the vehicle to move forward in **N**, when **UP** or **DOWN** is requested, a gear will be engaged that corresponds to the speed of the vehicle.

#### *UP-shifting*

Operate the right-hand **UP** paddle without releasing the accelerator pedal.

An **UP**-shift request is not accepted when engagement of the requested gear forces the engine to underrev or if an **UP**-shift is already in progress because of engine overrevving.

Gearshifting will be much quicker if the request is made with the accelerator pedal pushed right down and the engine at over 5,500 rpm.

In any event, it is advisable to:

- Shift gears without releasing the accelerator pedal if pressed.
- Wait until gearshifting has been completed before requesting the next shift, avoiding a rapid sequence of multiple requests.

#### *UP-shifting due to overrevving*

The system “automatically” engages a higher gear if the accelerator pedal is pressed and the engine approaches the “runaway speed rate” (overrevving).

### Important note



This will not occur when the system is in “SPORT” and “ESC OFF” driving mode.





#### *DOWN-shifting*

Use the left-hand **DOWN** paddle without releasing the accelerator pedal.

A **DOWN**-shift request is not accepted if engagement of the requested gear forces the engine beyond a certain RPM, depending on the gear requested, or if a **DOWN**-shift is already in progress because of engine underrevving.

In any event, it is advisable to:

- Shift gears without releasing the accelerator pedal if pressed.
- If **DOWN**-shifting is requested to start overtaking which requires quick acceleration, press the accelerator pedal just before using the paddle.
- Wait until gearshifting has been completed before requesting the next shift, avoiding a rapid sequence of multiple requests.

#### *DOWN-shifting due to underrevving*

- The system shifts down “automatically” if the engine goes below a minimum number of revs (1250 RPM).
- The **DOWN**-shift request from the paddle is ignored if gearshifting is already in progress due to engine underrevving.

#### *“N” (Neutral) request*

With the engine running, pull both **UP** and **DOWN** paddles towards the steering wheel at the same time without pressing the brake pedal to request neutral “N”.

If necessary, “N” can be requested at any speed.

Subsequently, if an “**UP**” or “**DOWN**” shift is requested, the system will engage the gear most suited to the speed of the vehicle.

#### *Stopping the vehicle*

When the vehicle stops, the system automatically engages 1<sup>st</sup> gear unless Neutral has already been requested.

When the vehicle is stationary and the engine is running, hold the brake pedal down until ready to move off again.

#### *Switching off the engine*

The engine can be switched off with the gearbox either in “N” or with a gear engaged.

After turning the ignition key from position **II** to position **0**, the gearbox display will remain on for a few more seconds to display the engaged gear. If the gearbox is in “N” a buzzer will sound. Before switching off, the letter “**P**” is displayed on the gearbox display to inform the driver that the Park Lock has been activated.

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#### **Warning**



Never leave the vehicle with the gearbox in “N”. Always make sure that the letter “**P**” (Parking) appears on the gearbox display.

#### **Warning**



Never leave the vehicle with the engine running.

#### **Important note**



If the vehicle is not in Parking mode (the letter “**P**” must be displayed on the gearbox display), the key cannot be removed.

For information on the Park Lock, see page 179.



#### *“Automatic gearbox” mode*

The “Automatic gearbox” mode is enabled/disabled by pressing the **AUTO** button on the centre console. When the “Automatic” mode is enabled, the word “auto” appears on the gearbox display. To exit the “Automatic” mode, you must press the **AUTO** button until the word “auto” on the gearbox display disappears.

When the “Automatic Gearbox” mode is enabled, the system will automatically UP-shift and DOWN-shift according to vehicle speed, engine revs and the torque/power request of the driver.

When you are in “Automatic” mode, you can however manually shift gears using the **UP** and **DOWN** paddles. The system remains in “Automatic” mode: this is indicated by the word “auto” that remains on the gearbox display in flashing mode when the paddles are used.

When the vehicle is stationary, a “N”, 1<sup>st</sup> gear or “R” request will not result in a change from “Automatic” to “Manual”.



#### *“Auto easy exit” mode*

Every time the vehicle is started, the gearbox starts in “Auto easy exit” mode unless it was in “Automatic” mode when the engine was turned off. In this case, it remains in “Automatic” mode the next time the engine is started.

Activation is signalled by the word “auto” and an arrow ▼ in the gearbox display.

In this mode, the system will automatically UP-shift and DOWN-shift according to vehicle speed, engine revs and the torque/power request of the driver.

To exit the “Auto easy exit” mode and go to “Manual” mode, operate the **UP** or **DOWN** paddle (while the vehicle is moving) or press the **AUTO** button on the centre console.

If the “Automatic” gearbox mode is then requested by pressing the **AUTO** button, the system will apply all the characteristics of the “Automatic” gearbox mode.



#### *Push start*

#### **Warning**



Push starting is not allowed.





### *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. mat covers, 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.

### *While 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 in force in the country you are driving in and always respect the speed limit.
- Always make sure that the driver and passengers have their seat belts fastened and that all children are travelling in suitable child seats.
- Good personal physical conditions ensure you can drive long distances safely.

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### Warning



Driving under the influence of drugs or certain medications is dangerous to yourself and others as well as contravening road regulations and legal norms.

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.
- Drive with due caution in consideration of the reduced visibility.
- If you start feeling tired or sleepy, stop immediately: to continue driving would be a risk for yourself and for others. Continue only after you have had a rest.
- At night, it is difficult to judge the speed of vehicles in front of you as you can only see their taillights: keep at a greater safety distance than you would during the day.
- Use the high beams only outside of urban areas and when you are sure that they will not disturb other drivers.
- Turn off the high beams when you see oncoming vehicles and use the low beams.
- Keep the lights and headlights clean.
- Watch out for animals crossing the road when 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.

Here 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 since 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”): if this occurs, grip the steering wheel firmly.

#### Warning



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

- Use the ventilation system to demist the windscreen (see page 199) and avoid visibility problems.
- Periodically check the condition of the windscreen wiper blades.

#### Driving in fog

Whenever possible, avoid travelling if there is thick fog. If you have to drive in misty conditions, or if there is thick fog or fog banks, follow these rules:

- Keep a moderate speed.
- Turn on the low beams, also during the day, and use the rear fog light. Avoid using the high beams.

#### Warning



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

- Remember that fog makes the road damp and therefore all 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 free 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.

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#### *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.

#### *Power steering system*

The power steering system uses the power produced by the engine to help the driver steer more precisely while exerting less force on the steering wheel.

#### **Important note**



Remember that power steering does not work when the engine is switched off and more force is therefore needed when steering.

#### **Warning**



Do not keep the steering wheel fully turned (locked position) to the right or the left for more than 15 seconds when the engine is running. This may damage the power steering system.

#### **Important note**



If the power steering system is not working properly, as indicated by a symbol which appears on the TFT display (see page 150), contact the FERRARI SERVICE NETWORK.





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

The driving mode control switch **A** on the steering wheel, allows the driver to use the vehicle potential in a quick and easy way.

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

- The **COMFORT** mode is recommended for everyday driving. If COMFORT mode is selected, it is indicated on the TFT display as shown below:

3





- **SPORT** mode is the vehicle driving mode that provides the best compromise between stability and performance. This setting ensures stability in medium- to high-grip conditions only (for low-grip road surfaces, we recommend using the **COMFORT** 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.

If SPORT mode is selected, it is indicated on the TFT display as shown below:

- In “**ESC OFF**” mode the **ESC** system is disabled. Vehicle stability is no longer controlled, but is completely in the hands of the driver. The only auxiliary systems still active are those that cannot be deactivated such as ABS and EBD.

#### Warning



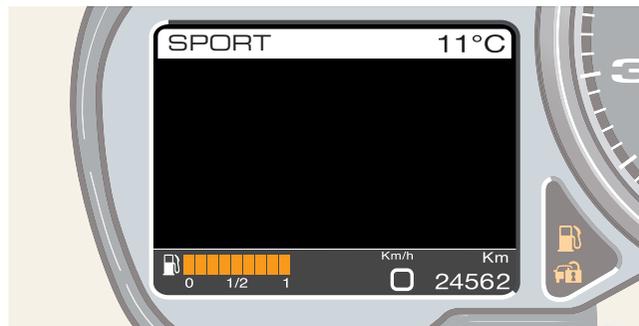
In low- to medium-grip conditions (e.g. wet, icy, sandy roads), do not deactivate the **ESC** system and do not select **SPORT** mode.

#### Important note



When the brake pedal is pressed, traction control is activated via the VDC system (vehicle dynamics control via the braking system).

When the ESC system has been deactivated, it is indicated on the TFT display as shown below:





## Park Lock

The Park Lock is a locking device built into the gearbox.

This device is used to prevent the vehicle from moving when the multi-disc clutches are open, i.e., with the engine off and/or without the hydraulic pressure required for gearbox operating.

The device operates automatically every time the key is turned to off: if a gear is engaged when the key is turned to off, the Park Lock is immediately activated. If the gearbox is in "N" (neutral), the Park Lock starts operating after a minimum preset time (needed for the Carwash procedure, see next paragraph). To inform the driver that the Park Lock has been engaged, the letter "P" is displayed on the gearbox display.

The Park Lock is deactivated when the engine is running, the first gear or "R" is requested (with the brake pedal pressed) and the engine compartment lid has been closed correctly.

If there is a system failure, refer to the "Emergency unlocking of Park Lock" section on page 246.

## Carwash procedure

The Park lock device can be electrically disabled on a temporary basis when the engine is switched off by performing the Carwash procedure.

This procedure is necessary when the vehicle has to be moved with the engine off and when washing the vehicle.

### Warning



When the Park Lock device is electronically deactivated (Carwash procedure), the vehicle may move. The vehicle is only kept stationary by the parking brake which must be applied.

3

To perform the Carwash procedure, do the following:

- with the engine running, select the first gear;
- select neutral "N";
- switch off the engine;
- turn the key to position II (key-on) within 3 seconds of switching off.

The message "Carwash mode activation" will appear on the TFT display.



## Launch Control

The “Launch Control” mode is a performance start function. Activating this function provides the vehicle the best possible acceleration.

The device transfers the necessary torque to the ground and avoids skidding of the wheels during acceleration.

To start the vehicle in “Launch Control” mode, do the following:

- the vehicle must be stationary;
- the gearbox must be in manual mode;
- select first gear;
- press the **LAUNCH** button **L** on the central console: an acoustic signal informs the driver that the device has been switched on and the word “launch” appears on the gearbox display;
- press the accelerator pedal and release the brake pedal.



### Important note



The Launch control function is not available in presence of:

- a sloping road surface, even slight;
- high clutch temperatures.

### Warning



Only use the “Launch Control” function in appropriate traffic conditions and in optimum safety and road surface conditions.





### Suspension damping control (optional)

On request, the vehicle can be fitted with latest generation MagneRide™ magnetorheological suspension (optional), a system developed by Delphi and perfected by FERRARI for continuous automatic damping control.

By processing data received from the vehicle dynamics sensors and sensors that detect bodyshell movements, the ECU interprets the driving conditions and the road surface and immediately adjusts suspension response by varying the control current of each shock absorber. These sensors allow the ECU to calculate the vehicle speed, vertical and lateral acceleration, steering angle and instantaneous pressure in the braking system, and hence to control suspension damping.

This system not only ensures an optimal compromise between racing-style performance (handling) and comfort, but is capable of emphasising either aspect by using the different adjustments available controlled by the “Manettino” driving mode control switch. Three different setting levels are available on this vehicle.

#### Level 1 (COMFORT)

Slightly more flexible setting, optimised to better absorb road unevenness and provide a better grip on wet road surfaces (Manettino set to COMFORT).

#### Level 2 (SPORT)

Slightly more rigid adjustment optimised for sports-style driving and for high speed (with medium-high grip), without significantly affecting comfort (Manettino set to SPORT).

#### Level 3 (RACE)

Even more rigid setting optimised for use on the race track (Manettino set to ESC OFF).

### Suspension damping delink button

The driver may decide to separate the suspension setting from the logic of the “Manettino” driving mode control switch using the special button **A** on the steering wheel.

By pressing button **A**, irrespective of the position of the Manettino, the suspension setting shifts to Level 1 (COMFORT).

Position of Manettino	Suspension setting	Button <b>A</b> pressed
COMFORT	COMFORT	remains COMFORT
SPORT	SPORT	shifts to COMFORT
ESC OFF	RACE	shifts to COMFORT

3

If button **A** has been pressed and subsequently the position of the Manettino is changed, the suspension setting follows the operating logic dictated by the Manettino.





### Important note



Upon turning off and restarting the vehicle, the suspension setting depends on the position of the Manettino.

When the Manettino is set to SPORT or ESC OFF, shifting to the COMFORT suspension setting by pressing button **A** is indicated by displaying the special symbol and “Bumpy road” message on the left TFT display for 5 seconds.

After 5 seconds, next to the Manettino status in the top of the display, the suspension symbol continues to be displayed as shown in the photo below (example shows Manettino in “SPORT” mode).





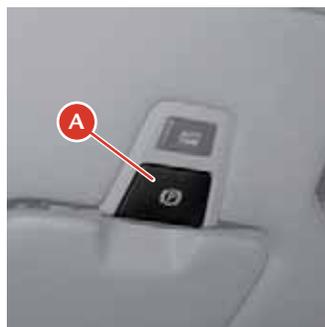
## EPB - Electric parking brake

On this vehicle the parking brake is actuated by an electric motor.

The parking brake can be applied and released by pulling a special lever **A** on the dashboard to the left of the steering wheel. With the ignition key turned to **II**, the relative indicator on the instrument panel (see page 152) lights up to indicate when the parking brake is engaged.

To release the parking brake, pull lever **A** and keep the brake pedal pressed. If the ignition key is in position **II**, the warning light will go out when the parking brake has been fully released.

The electric parking brake can be used as an emergency brake when the vehicle is in motion. If this is the case, the system acts on all four wheels until button **A** is released by communicating with the ESP system which prevents locking.



### Warning



Always apply the parking brake when the vehicle is parked.  
The vehicle should be blocked. If this is not the case, please contact the **FERRARI SERVICE NETWORK**.

### Drive Away function

The electric parking brake (EPB) has a “Drive Away” function: when a gear is engaged and the driver presses the accelerator pedal with the engine running and seat belt fastened, the system recognises the driver's intention to drive off and automatically deactivates the parking brake.

### EPB deactivation warning

If you try to deactivate the electric parking brake by moving lever **A** without depressing the brake pedal, the message “Depress brake pedal and deactivate EPB” is immediately displayed on the TFT display accompanied by an acoustic signal.

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#### *Autopark Function*

The EPB Autopark function automatically activates the electric parking brake when the engine is switched off. At each Key-on, the Autopark function is always active by default: this means that the driver does not need to apply the parking brake when the engine is switched off.

However, the function can be temporarily deactivated before switching off the engine by pressing the **AUTO PARK B** button: the message "PARK OFF" is displayed on the left TFT display for 5 seconds. If this is the case, the parking brake should be manually applied by pulling lever **A** once the engine has been switched off. To re-enable automatic EPB engagement at the next key-off, press button **B** again; the message "PARK ON" is displayed on the left TFT display for 5 seconds.

#### *"Automatic Vehicle Holding" AVH function*

The electric parking brake provides optimised release when the vehicle starts up due to its Automatic Vehicle Holding function: once the engine has started, the system keeps the vehicle braked through intervention of the braking system rather than through the parking brake shoes.





## Stop&Start system (optional)

Vehicles with optional HELE (High Emotion Low Emissions) technology are equipped with a Stop&Start system which automatically stops the engine when the vehicle is stationary and restarts it automatically when the driver wants to set off again.

The aim of the Stop&Start function is to increase vehicle efficiency by reducing CO<sub>2</sub> emissions especially when driving around town.

Automatic stopping and restarting of the engine is controlled by sensors and control strategies which, while reducing the impact on vehicle flexibility and comfort to a minimum, guarantee full operating of the safety systems and all the on-board systems even when the engine is switched off and minimise the impact on on-board climate comfort.

### Warning



Never leave the vehicle without turning the ignition key to position **0**.

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

Never leave children unattended in the vehicle.

### Warning



Make sure that the engine is switched off with the ignition key in position **0** before refuelling.

### Warning



Always make sure that the Stop&Start system has been deactivated before carrying out any repair and/or maintenance work as indicated on the special labels in the engine compartment and underneath the vehicle.

Failure to comply with the above may pose a risk of serious injury to people working on the vehicle.

### Warning



The driver is personally responsible for leaving the key in the ignition in position **II** when getting out of the vehicle: the driver must always turn the ignition key to position **0** before getting out of the vehicle.

### Warning



Leaving the vehicle with the ignition key in position **II** puts those who are in the vicinity of the vehicle at serious risk if the engine starts unexpectedly.

### Warning



Always turn the ignition key to position **0** before changing the tyres.

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## How the system works

If activated, the Stop&Start system decides when to switch off the engine and when to restart it according to the driving conditions, the climate comfort on board and the operating status of the vehicle. The system logic does not require drivers to make any change in the way they drive the vehicle.

### *Manual activation and deactivation button*

The driver can activate/deactivate the Stop&Start system at any time by pressing button **A** on the roof panel. If the system is activated, pressing button **A** will deactivate it: the message “Stop&Start OFF” appears for 5 seconds on the TFT display accompanied by a special symbol.

Once the system has been deactivated, pressing button **A** again reactivates the system: the message “Stop&Start ON” appears for 5 seconds on the TFT display accompanied by a special symbol.

If the Stop&Start system is activated, the LED on button **A** comes on whereas if the system is deactivated, the LED goes off.

Deactivation of the system by pressing button **A** while in a stopped vehicle condition (when the engine has been automatically switched off by the Stop&Start function) automatically restarts the engine.





**Important note** 

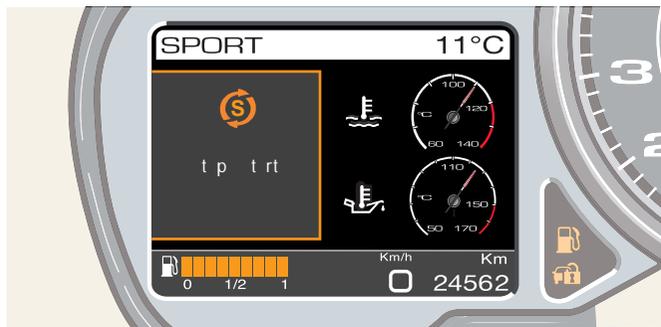
Each time the ignition key is turned to position **II** (Key-on), the Stop&Start system remains in the same state it was in when the switch was turned to position **0** (Key-off). If the function was activated at Key-off, it remains activated at the next Key-on and the LED on button **A** will flash for a few seconds.

*Automatic engine stop mode*

**The engine stops automatically when the vehicle is stationary and the brake pedal is pressed, and restarts when the brake pedal is released.**

The TFT display informs the driver that the Stop&Start system has been activated by displaying the message “Stop&Start active” accompanied by a special symbol. The message is displayed as long as the vehicle remains in a stop state. To interrupt the display cycle and reduce the message to an icon, press the **MODE** button with “ESCAPE” function.

3





#### *Conditions required to activate automatic engine stop*

To activate the automatic engine stop while driving:

- **the Stop&Start system must be activated by pressing the button on the roof panel (LED on);**
- **the driver's seat belt must be fastened.**

For safety reasons and to guarantee driving comfort and correct operating of the entire vehicle, automatic engine switching-off is deactivated when:

- the accelerator pedal is depressed;
- a potentially dangerous situation is identified (steep road, vehicle stationary with wheels turned, i.e. when turning at a crossroads or on a roundabout);
- the system recognises vehicle motion in slow traffic or a parking manoeuvre (checking reverse gear engagement, time elapsed since last stop, driving speed);
- maximum air conditioning and heating system performance is requested ("low", "max defrost" or "rear screen demisting");
- external temperatures are very low or very high;
- the gearbox is in the "N" position;
- the DCT gearbox Park Lock has been manually released;
- a failure interferes with proper system operating.

The system also constantly monitors some of the vehicle operating parameters (battery charge level, engine coolant temperature, catalytic converter temperature, clutch oil temperature, vacuum level in brake servo, climate comfort in passenger compartment) so that engine switching off can be deactivated in certain conditions to guarantee safety and vehicle operating and minimise the impact on on-board climate comfort.

#### **Important note**



After the first cold start, the Stop&Start system may take a few minutes before it is ready. This time period allows some of the engine parameters (catalytic converter temperature, for example) to reach the values required to reduce emissions.

#### **Important note**



If the engine continues to run when the vehicle is stationary and the brake pedal is pressed, even if the Stop&Start system appears to be activated, it means that the system has disabled automatic switching off of the engine. When this happens, no specific signal is displayed on the instrument panel: this is to be considered normal.





#### *Information on automatic restarting of engine*

With the Stop&Start system activated in a stopped vehicle condition, the driver can restart the engine by:

- releasing the brake pedal;
- **UP**-shifting;
- engaging reverse gear;
- pressing the accelerator pedal.

#### **Warning**



If the engine is switched off accidentally and not by the Stop&Start system, it must be restarted manually by the driver by pressing the **ENGINE START** button and reengaging the gear using the shift paddles located behind the steering wheel. This condition is indicated on the TFT display by the message “Press **ENGINE START** button to restart”, accompanied by an acoustic signal.

For safety reasons and to guarantee comfort when the vehicle is stationary and correct operating of the entire vehicle, the Stop&Start system also automatically restarts the engine when:

- the **ENGINE START** button on the steering wheel has been pressed;
- the function has been deactivated by pressing the button located on the roof panel;
- the driver’s seat belt has been unfastened;
- the driver-side door has been opened;
- the hard top is being opened or closed;
- rear screen demisting has been requested or the air conditioning and heating system set to “low” or “max defrost”.

The system also constantly monitors some of the vehicle operating parameters (battery charge level, engine coolant temperature, catalytic converter temperature, clutch oil temperature, vacuum level in brake servo, climate comfort in passenger compartment, vehicle speed) so that the engine can be automatically started in certain conditions to guarantee safety and vehicle operating and minimise the impact on on-board climate comfort.

3



#### *Permanent deactivation of automatic restarting and manual start procedures*

After automatically switching off the engine using the Stop&Start system, automatic restarting requested by the driver may not always be possible: this means that the vehicle systems have permanently deactivated automatic restarting.

If this occurs, the vehicle must be restarted manually: This condition is indicated on the TFT display by the message “Press ENGINE START button to restart” accompanied by an acoustic signal.

#### Warning



If automatic restarting is permanently disabled, the vehicle behaves in the same way as a vehicle with no Stop&Start system: to restart, the driver must perform a manual start by pressing the **ENGINE START** button and using the shift paddles located behind the steering wheel.

Permanent deactivation of automatic restarting occurs when:

- the engine compartment lid is open;
- automatic engine restarting has not been successful;
- a failure has been detected that may interfere with operating of the Stop&Start system.

At times, depending on the seriousness of the failure, the **ENGINE START** button may have to be held down for a few seconds to restart the engine: this condition is indicated on the TFT display by the message “Press and hold ENGINE START button to start” accompanied by an acoustic signal.





## System failure

If malfunctioning, the Stop&Start system is disabled. The driver is informed of the failure by a special symbol that appears on the TFT display for 20 seconds accompanied by an acoustic signal and the following message which corresponds to two different alarm levels:

- “Stop&Start failure”.
- “Stop&Start failure. Go to dealer”.

### Important note



Contact the **FERRARI SERVICE NETWORK** immediately.

When the display cycle ends (20 seconds), or the **MODE** button with “ESCAPE” function is pressed, the message disappears and the symbol is reduced to an icon.



## Precautions to be taken during maintenance work

Always turn the ignition key to position **0** before carrying out any repair and/or maintenance work on the vehicle. If work has to be carried out on the vehicle with the ignition key in position **II**, check that the Stop&Start has been deactivated by performing the following procedure before doing any repair and/or maintenance work:

if the ignition key is in position **II**, turn it to **0** before turning back to **II**, then press the Stop&Start system activation/deactivation button on the roof panel (see page 186). If the message “Stop&Start ON” appears on the TFT display when the button is pressed, press the button again. Check that the message “Stop&Start OFF” appears on the TFT display for 5 seconds. The button LED must be off.

3

### Warning



**NEVER** work on the vehicle if the message “Stop&Start active” appears on the TFT display.

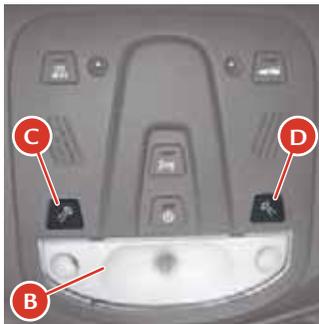




### Dome light controls (HELE system only)

On vehicles with the optional HELE system, the central dome light **B** can be switched on or off by holding button **C** or **D** down (for more than 0.8 seconds).

The driver-side spotlight and the passenger-side spotlight can be switched on and off by pressing and quickly releasing buttons **C** and **D** respectively.





## Seat adjustment

### Warning



As with all adjustment, seat adjustment must be performed when the vehicle is stationary.

### Warning



Never place your hands under the seat or near its moving parts when adjusting. If you do so, movement of the seat may cause injury to hands or fingers.

Correct adjustment is very important for enhanced driving comfort and maximum efficiency of the passive safety systems.

The seat position can be electrically adjusted using the special controls.

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

- backward/forward adjustment: push the control forwards or backwards;
- height adjustment: push the control up or down;
- seat inclination (tilting): push the front or rear end of the control up or down to adjust seat inclination.

### Warning



Forward/backward adjustment must take into account the fact that airbag devices are placed in front of the driver and the passenger.

Correct adjustment ensures there is adequate space between the airbag and the driver/passenger (see page 58).

3





### Seat back rake adjustment

Use control **E** to adjust the seat back rake. Push the control forward or backward to adjust the seat back rake.

### Tilting the backrest

Pull lever **L** to tilt the backrest forward. When the backrest goes back into position, it will automatically block once it has reached the correct position.

#### Warning



Do not use the electric seat adjustment controls when the backrest is tilted.

### Lumbar support adjustment (Full Electric option)

Use control **F** to adjust the seat backrest lumbar support. Push the horizontal arrows on the control left or right to increase or decrease lower lumbar support. Push the vertical arrows on the control up or down to increase or decrease upper lumbar support.





#### *Backrest and cushion side width adjustment (Full Electric option)*

Use control **G** to pneumatically adjust the width of the backrest and seat cushion sides. Push the horizontal arrows on the control left or right to increase or decrease the width of the seat cushion sides. Push the vertical arrows on the control up or down to increase or decrease the width of the backrest sides.



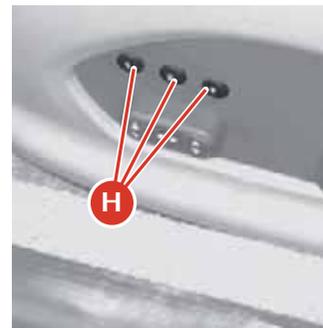
#### *Seat position memory*

When a door is open and the key is in position 0, the seat can be moved for a limited period (approx. 15 sec.). Each time a door is opened or both doors are closed and the key is set to OFF, the seat can be moved again for a limited period.

The seat position can only be memorised when the key is in position **II**, by pressing one of the three buttons 1, 2 or 3 (**H**) each one corresponding to a memorisable position. Pressing one of these buttons for longer than 3 seconds memorises the position of the driver seat, rear-view mirrors and steering wheel (confirmed by emission of a double tone).

To recall the memorised position, press one of the buttons **H** and release it within 3 seconds. Operation begins as soon as the button is released.

Recalling the memorised position is not allowed when the vehicle is in motion. If the vehicle starts to move while the memory recall is being operated, the seat and column do not stop moving and reach the memorised position.



3



If the memorised backward/forward position of the passenger seat is less than approximately 50 mm from the rear end of travel, when this seat position is recalled from a differently adjusted position, the seat stops once it is approximately 50 mm from the rear end of travel. The position can be adjusted by using the backward/forward adjustment control.

With reverse gear engaged, the position of the passenger external rear-view mirror can be adjusted to a position other than the driving position, to help parking manoeuvres. This position can be memorised along with all the other memorisable positions.

If the personalised reverse gear position is never set, when the reverse gear is engaged, the passenger external rear-view mirror will be positioned slightly downwards and inwards (with respect to the driving position).

#### *Seat heating system (Full Electric option)*

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

When this function is active for one or more seats, the relative warning light comes on on the instrument panel. Using control **N**, the driver can adjust the heating, choosing from 3 levels identified on the control with the numbers 1, 2 and 3. In position 0, seat heating is not activated.

#### *Driver seat Easy Entry/Exit (Full Electric option)*

To help the driver to get in and out of the vehicle, the driver seat Easy Entry/Exit function is activated (only operative when the door is open and the key is in position **0**) which moves the steering wheel column upwards. When the door is closed and the key is in position **II**, the steering wheel column returns to its original position.





## Adjusting the steering wheel

### Mechanical adjustment

- 1) Release lever **X** by pushing it forwards.
- 2) Adjust the position of the steering wheel.
- 3) Block the steering wheel by pulling lever **X** until it locks into position.

### Electrical adjustment

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.

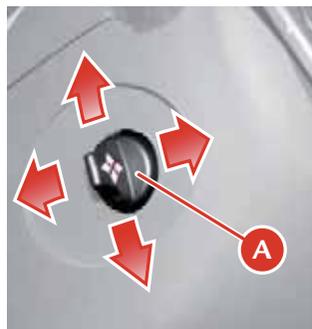
The steering wheel position is memorised, together with the position of the external rear-view mirrors, when the driver's seat position is stored.

### Warning



Do not adjust the steering wheel while driving.

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



## Rear-view mirrors

### Internal rear-view mirror

Hold the internal rear-view mirror and move it to the required position.

On request, the internal rear-view mirror can be fitted with an electrochromic mirror that automatically darkens to reduce the dazzling effect of the reflected light on the driver. The speed with which the mirror darkens depends on the intensity of the light.

By pressing button **B** you can activate/deactivate the electrochromic mode. When the electrochromic mode is activated, the green LED **D** comes on.

3





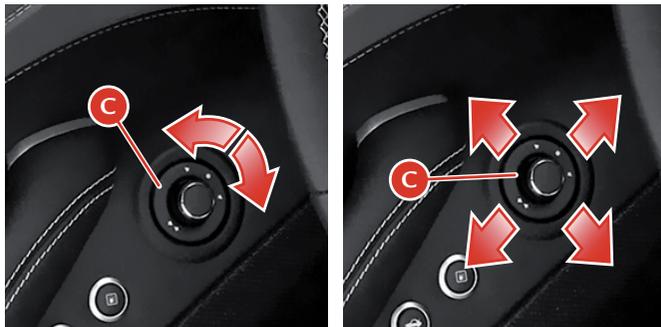
### External rear-view mirrors

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

- 1) Mirror selection: turn control **C** to the left or right lock position to select the mirror that requires adjusting.
- 2) Mirror positioning: move control **C** in the four directions (up – down – right – left) to adjust the selected mirror.
- 3) Mirror closure (optional): turn control **C** to the lower central lock position to close the rear-view mirrors.

Once adjusted, move the control **C** into the upper central position where it will be locked in order to avoid changing the external mirror 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 195), each one corresponding to a memorisable position, until a double tone confirms that 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.



### Warning



The rear-view mirrors must always be positioned correctly while driving.

Do not adjust the rear-view mirrors when the vehicle is moving.

On request, the external rear-view mirrors can be fitted with an electrochromic mirror.





## 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.

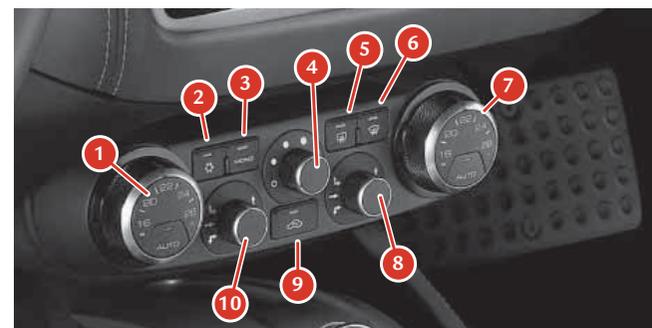
#### *Manual*

This mode allows the user to set the values to suit the passengers' needs.

### *Controls*

- 1 Left-hand temperature setting and AUTO button
- 2 A.C. compressor activation/deactivation
- 3 Single-zone mode activation/deactivation
- 4 Air distribution fan speed
- 5 Rear window demist activation/deactivation
- 6 Windscreen demist activation/deactivation
- 7 Right-hand temperature setting and AUTO button
- 8 Right-hand air distribution mode setting
- 9 Air recirculation
- 10 Left-hand air distribution mode setting.

3





*Left-hand temperature setting and AUTO button (1)*

This is used to select the required air temperature in the left-hand side of the passenger compartment; the AUTO button is used to activate automatic operation (LED on).

*A.C. compressor activation/deactivation (2)*

This is used to activate (LED on) or deactivate (LED off) the A.C. compressor.

*Single-zone mode activation/deactivation (3)*

This is used to activate (LED on) or deactivate (LED off) the single-zone operating mode.

*Air distribution fan speed (4)*

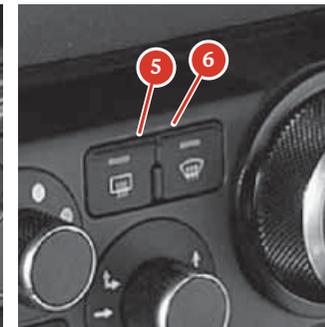
The four setting positions allow the occupants to select the air flow rate.

*Rear window demist activation/deactivation (5)*

Press this button (LED on) to activate rear window defogging/demisting.

*Windscreen demist activation/deactivation (6)*

Press this button (LED on) to activate windscreen defogging/demisting.





#### *Right-hand temperature setting and AUTO button (7)*

This is used to select the required air temperature in the right-hand side of the passenger compartment; the AUTO button is used to activate automatic operation (LED on).

#### *Right-hand air distribution mode setting (8)*

This is used to select one of the six air flow distribution modes in the right-hand side of the passenger compartment.

#### *Air recirculation (9)*

If 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.

If pressed (LED on), the air flow comes from inside the passenger compartment.

The recirculation increases air heating or cooling.

#### *Left-hand air distribution mode setting (10)*

This is used to select one of the six air flow distribution modes in the left-hand side of the passenger compartment.

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.

#### **Important note**



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.

3





## Adjusting the air vents

The adjustable air vents are positioned on the sides and in the central section of the dashboard, air flow direction **A** and air flow rate **B**. Turned counterclockwise: open. Turned clockwise: closed.

### Important note



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

### Maintenance

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

### Sun radiation sensor

This sensor is positioned on the dashboard and optimises ventilation and temperature control inside the passenger compartment depending on the incidence angle of the sun rays.



## Passenger compartment accessories

### Glove compartment

This is located on the passenger side of the dashboard. To open it, pull lever **C** and the glove compartment will move down slowly by way of a damped opening mechanism.

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

### Warning



Keep the glove compartment closed while driving.

To close the glove compartment, push the top part until you hear the click of the lock.





#### *Oddment storage compartments*

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

#### *Sun visors*

The sun visors can be moved by pulling them down towards the windscreen.

There is a mirror on the back of the passenger-side visor.

3





### 12V power socket

The vehicle has a power socket **D**, positioned in the glove compartment under the armrest.

The socket can be used to power small electrical appliances including: mobile phones, lights, vacuum cleaner and any other accessory with absorption not exceeding 140 Watts and a voltage of no more than 12 Volts.

#### Warning



Prolonged use of this device may discharge the battery. Do not try to insert plugs into the power socket that are not the right size and shape.

#### Warning

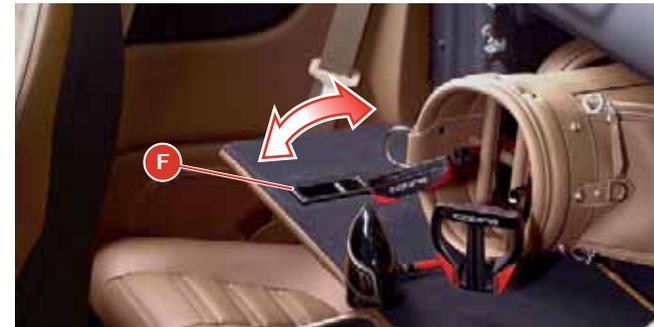


Use the power socket to connect the tyre repair and inflation kit in an emergency **ONLY** for the amount of time strictly necessary.



### Flaps communicating with luggage compartment

To open the passenger compartment flaps communicating with the luggage compartment **F** actuate the release levers **G** on the sides of the luggage compartment and then open them by lowering them towards the front of the vehicle.





### Placing suitcases in the luggage compartment

The luggage compartment secures any suitcases in the luggage compartment and prevents the hard top from jamming when operated. Make sure you have closed the partition correctly so that it is blocked correctly both on the left and the right.

#### Warning



Do not place any objects above the partition: this will help to avoid the risk of causing serious damage to the opening and closing mechanisms.

#### Warning



Do not place any objects in the folded roof compartment: this will help to avoid the risk of causing serious damage to the opening and closing mechanisms.

#### Warning



Do not place any objects on or next to the partition between the luggage compartment and the folded roof compartment when closed. Do not place any luggage so that its height exceeds that of the closed partition.

#### Important note



If possible, use the eyebolts to fasten the luggage with clamps or a rope.

3





## Wind deflector

The wind deflector can be used while driving with the retractable hard top open. It reduces wind buffeting in the passenger compartment and provides more comfort during trips at higher speeds too. The deflector is stored in a special bag inside the luggage compartment.

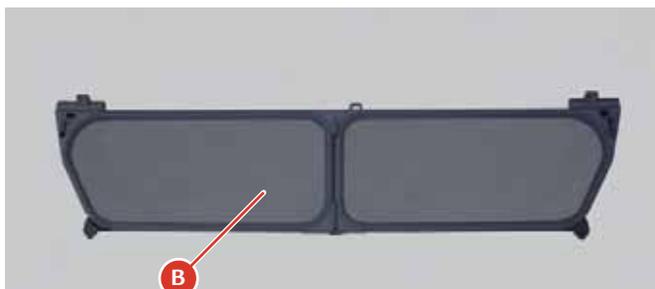
### Fitting

The deflector is divided into two parts: **A** and **B**.

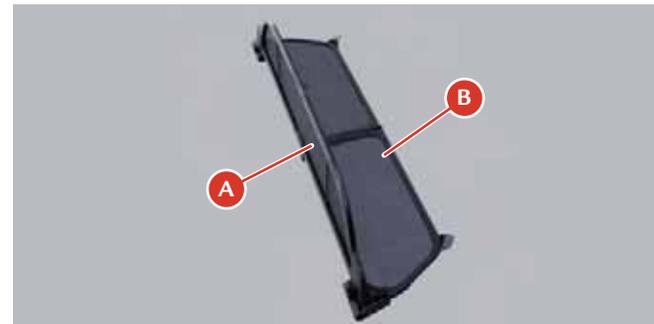
- Take part **A** and open it as shown in the figure.



- Take part **B** and open it as shown in the figure.



- Fit part **A** onto part **B** as shown in the figure.



### Important note



Make sure that the hook **1** has been correctly inserted.





**Important note**   
Lock the fastenings **2** on the right and left of the deflector **B**.

- Push the pin **3** until it snaps into place.

**3**





- Place the deflector with its supports **4** fitted in the special slots on the left and right of the vehicle and pin **3** in the special hole on the right of the vehicle.

#### Important note



Pay attention to the vehicle trim.

- Push the other pin **3** into the special hole on the left of the vehicle, until it snaps in place.

#### Warning

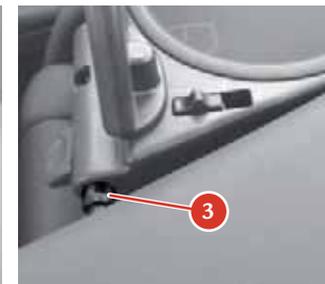


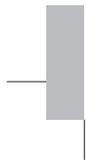
When the deflector is fitted, if you must move the seat back up to the end of travel, do not tilt the front seats too far back to avoid damaging the deflector.

#### Warning



Check that the deflector has been secured correctly!







1. General

2. Safety

3. About your Vehicle

**4. Advice for Emergency Situations**

5. Care of the vehicle

6. Glossary

7. Table of Contents







### Warning



Repair work using the toolkit requires:

- suitable protective equipment (e.g. gloves);
- adequate precautions to be taken (e.g. during tyre replacement never lie under a vehicle raised by a jack);
- minimum specific expertise when working in contact with electrical parts/components (e.g. battery).

### Toolkit

#### *Tool bag*

Stored in the luggage compartment, it contains the necessary tools for emergency repair jobs:

- pair of cotton gloves;
- set of fuses;
- pliers for removing fuses;
- tow hook;
- funnel for emergency refuelling;
- screwdriver for slotted and crosshead screws;
- EPB emergency release tool;
- Park Lock emergency release tool;
- emergency tyre repair and inflation kit.





### 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.

#### Important note



To use the tyre repair and inflation kit correctly, refer to the instruction booklet provided with the kit.

#### Warning



Give the instruction booklet supplied with the kit to the personnel that will have to deal with the tyre treated with the repair kit.

#### Warning



In the event of a puncture caused by foreign objects, tyres can be repaired with cuts of up to **4 mm** in diameter on the tyre tread and shoulder.

#### Warning



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

#### Warning



Damage to the wheel rim that causes air leaks cannot be repaired. Do not remove foreign objects (screws or nails) that have penetrated the tyre.

#### Warning



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

#### Warning



Apply the sticker where it can easily be seen by the driver to indicate that the tyre has been treated with the tyre repair kit. Drive carefully especially on bends. Avoid sudden accelerations or braking.

4



### Warning



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.

### Warning



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.

### Important note



After driving for approximately 10 minutes, stop and recheck the tyre pressure.  
Remember to use the handbrake.

### Warning



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.

### Warning



If the pressure has decreased below **1.8 bar**, do not continue driving: the kit cannot guarantee the correct hold because the tyre is too damaged. Contact the FERRARI SERVICE NETWORK.

If the tyre pressure is at least **1.8 bar**, restore the correct pressure and continue driving.

Drive very carefully to the nearest FERRARI SERVICE NETWORK.





### Warning



The spray contains 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 during use. In the event of an allergic reaction, seek immediate medical advice. Store the spray can in its special case away from sources of heat.

The liquid sealant has an expiry date.

### Environment



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.

### Warning



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.

### Warning



Wear the protective gloves provided 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 regulations.

4



### Replacing the headlight bulbs

#### Important note



The low/high beams are equipped with bi-xenon light bulbs.  
To replace the headlight bulbs, contact the FERRARI SERVICE NETWORK.  
To adjust the headlight beam, please contact the FERRARI SERVICE NETWORK.

### Replacing the supplementary taillight bulbs

#### Important note



To replace the supplementary taillight bulbs, contact the FERRARI SERVICE NETWORK.

### Replacing the taillight bulbs

#### Important note



To replace the taillight bulbs, contact the FERRARI SERVICE NETWORK.





## Replacing number plate light bulbs

### Important note



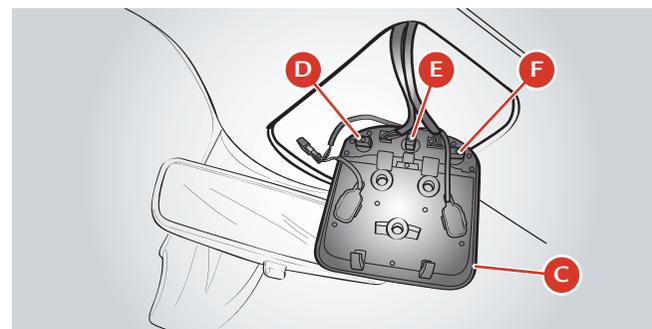
To replace the number plate light bulbs, contact the **FERRARI SERVICE NETWORK**.

## Replacing other light bulbs

### Roof dome light

- Use a screwdriver to gently pry out the edge of the transparent cover **C** of the dome light and remove it from the roof panel.
- Replace the bulb **D** or **E** or **F**.
- Refit the dome light and make sure that the wires are not trapped by inserting it first from the connector side and then pressing on the opposite side.

4





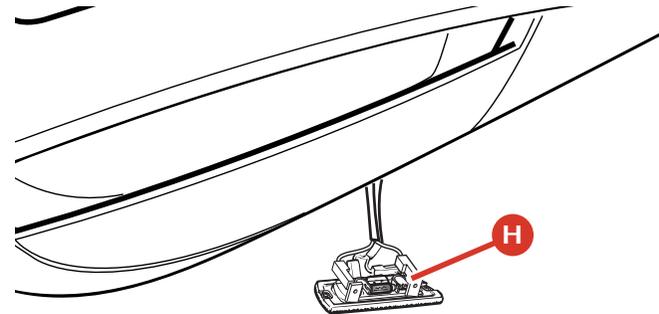
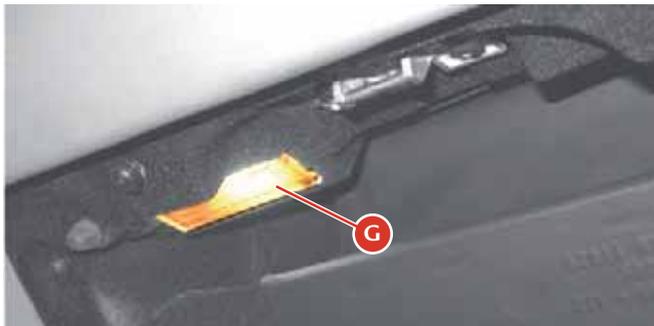
#### *Glove compartment and luggage compartment light*

- Use a screwdriver to gently pry out the edge of the transparent cover **G** and lift it.
- Completely remove the transparent cover from its housing.
- Take the bulb out of its clips.
- Replace the bulb.
- Refit the transparent cover and make sure that the wires are not trapped by inserting it first from the connector side and then pressing on the opposite side.

Replace the luggage compartment light bulb in the same way.

#### *Underdoor light*

- Use a screwdriver to gently prise under the edge of the transparent cover and lift it.
- Completely remove the transparent cover from its housing.
- Take the bulb **H** out of its clips.
- Replace the bulb.
- Refit the transparent cover and make sure that the wires are not trapped by inserting it first from the connector side and then pressing on the opposite side.





## Light bulbs

	Type	Power
Low beams and high beams	gas-discharge (mercury-free XENON)	Das
Front running lights	LED	
Front turn indicators	LED	
Side turn indicators	incandescent	T4W
Upper rear taillight	LED	
Number plate lights	LED	
Supplementary stop lights	LED	
Fixed part of reverse lights	LED	
Running/stop lights on moving part of taillight	LED	
Fixed part of rear turn indicators	LED	
Rear fog lights	LED	
Dome light	incandescent	8W
Spotlight	incandescent	5W
Glove compartment light	LED	
Underdoor courtesy light	incandescent	W5W
Luggage compartment light	incandescent	10W

4



## Replacing a fuse

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

**A** - Unblown fuse.

**B** - Blown fuse.

### Important note



If the problem persists, contact the **FERRARI SERVICE NETWORK**.

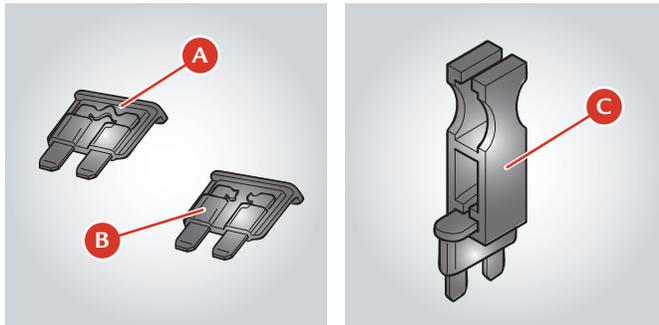
### Important note



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



The tool bag contains spare fuses.



Use the pliers **C** in the fuse box in the passenger compartment behind the dashboard to the left of the steering wheel to remove the fuses.

### Fuse colours

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

### Maxi fuse colours

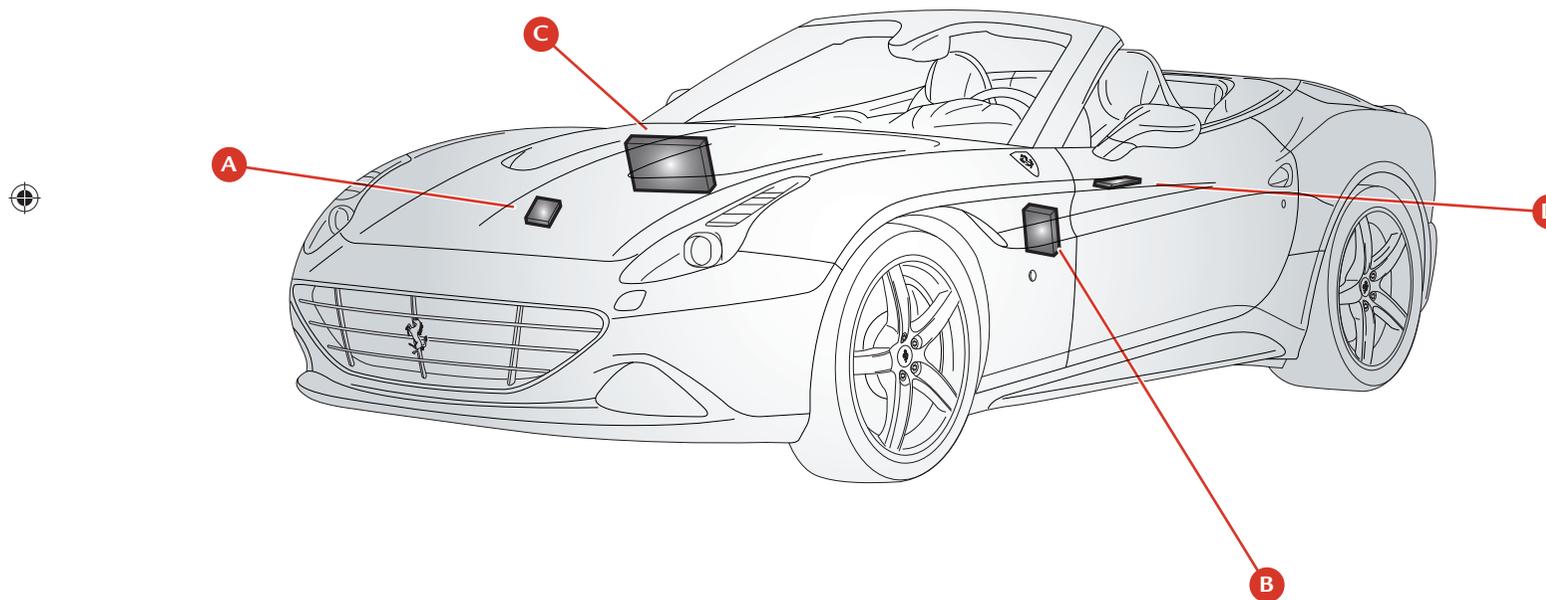
	Ampere
yellow	20
green	30
orange	46
red	50
blue	60





**Location of the fuse and relay boxes**

- A** - Fuses and relays in the engine compartment
- B** - Body Computer fuses and relays
- C** - Fuses and relays in passenger the compartment on passenger side
- D** - Fuses and relays in passenger the compartment on centre console



4



## Fuses and relays in the engine compartment

To access these fuses:

- open the engine compartment lid;
- remove the box cover **A**.

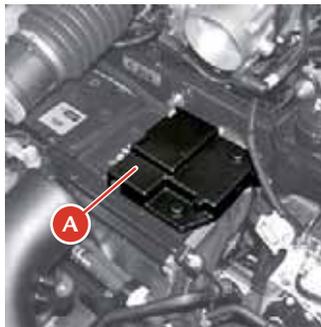
### Important note



Only open the boxes containing the fuses that need to be checked to avoid damaging other components.

Box **A** contains these fuses:

Ref.	Amp.	Use
CAL5	CAL5	Power supply (starter motor and alternator).
F-70	150	Power supply and engine relay
F-71	40	Hard top pump



F-72	40	Parking brake power
F-73	70	Dashboard ECU power

## Body Computer fuses and relays

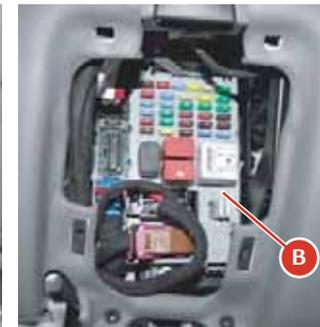
To access these fuses, remove the flap **1** by unscrewing the two fastener screws.

Box **B** contains the following relays (**R**) and maxi fuses (**MF**):

### Important note



Only open the boxes containing the fuses that need to be checked to avoid damaging other components.





Box **B** contains the following relays (**R**) and maxi fuses (**MF**):

Ref.	Amp.	Use	*STOP&START
F-12	15	Right high beam	
F-13	15	Left high beam	
F-31	7.5	AC unit, body computer connector	
F-32	10	Dome lights, foot well and step lights, side markers, supplementary taillights	
F-35	7.5	Clutch pedal control, Cruise control, power steering, beams	
F-36	10	Satellite alarm system, parking sensors, fuel filler flap	
F-37	10	Stop light control	
F-38	15	Luggage compartment lock	
F-39	15	+ 30 radio, air conditioning, diagnosis, CAN BOX, alarm siren. *+30 air conditioning, diagnosis, CAN BOX, alarm siren	
F-40	30	Heated rear window	
F-42	7.5	Parking cameras	
F-43	30	Windscreen washer/wiper relay power supply	
F-44	20	Passenger seat heating	
F-46	20	Hard top	
F-47	30	Driver-side door	
F-48	30	Passenger-side door	
F-49	7.5	Passenger compartment lighting switches and controls	

F-50	7.5	Airbags
F-51	7.5	Electronically controlled gearbox, engine start button
F-52	15	Power socket, driver seat heating
F-53	10	Instrument panel
	*n.v.	*NOT USED
T01	20	Low beam relay
T11	30	Heated rear window relay
T12	30	Service relay 1
T13	joint	Service powering jumper 2



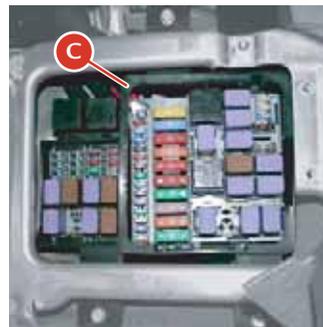
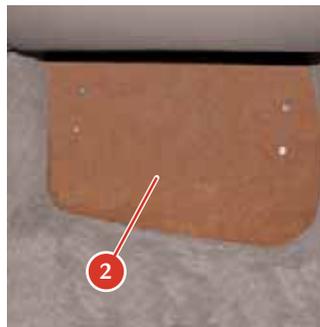
### Passenger side fuses and relays

To access these fuses, remove the passenger footrest **2** by unscrewing the four fastener screws.

Box **C** contains the following relays (**R**) and fuses (**F**):

Ref.	Amp.	Use	*STOP&START
F-01	60 40*	+30 LH electric fan +30 LH electric fan (BRUSHLESS)*	
F-02	30 40*	+30 F-97, F-98 +30 Voltage stabilizer (front)*	
F-03	50	+30 Fuel pump ESD ECU (PWM)	
F-04	50	+30 ABS (pump)	
F-05	40	+30 Air conditioning and heating system	
F-06	50 40*	+30 RH electric fan +30 RH electric fan (BRUSHLESS)	
F-07	20	+30 Horn relay	

F-08	7.5	Air conditioning and heating system compressor
F-09	7.5	+30 Supplementary stop light relay
F-10	15	+30 Luggage compartment lock relay
F-11	25	Motronic ECU services
F-14	15	+30 High beam relay
F-15	n.v.	NOT USED
F-16	n.v.	NOT USED
F-17	25	Motronic, air flow meter power supply (F100)
F-18	n.v.	NOT USED
F-19	7.5	+30 RH/LH cylinder bank injection system power supply
F-20	n.v.	NOT USED
F-21	30	+30 Ignition switch
F-22	15	Ignition coil, starting relay power supply
F-23	30	+30 F-94, F-95, F-96 +30 Voltage stabilizer (front)*
F-24	n.v.	NOT USED
F-30	30	+30 Starting relay
F-81	40	+30 F-91, F92, F93
F-82	70	+30 Dashboard ECU and luggage compartment ECU power supply
F-83	50	+30 Air pump relay
F-84	n.v.	NOT USED
F-85	25	Headlight washer relay





F-87	n.v.	NOT USED
F-88	n.v.	NOT USED
F-89	10	+15 from ignition switch
F-90	7.5	Motronic/Stabilizer start-up
F-91	7.5	+30 for Tyre Pressure Node (NTP) and T38
F-92	10	+30 for T19, T38, T39
F-93	30	LH electric fan relay
F-99	15	Misc. electronic injection services
F-100	7.5	Ionising ECUs
T02	n.v.	NOT USED
T03	30	Luggage compartment lock actuator relay
T05	50	Horn relay
T06	30	Air conditioning and heating system compressor relay
T07	30	Motronic main relay
T08	n.v.	NOT USED
T09	n.v.	NOT USED
T10	10/20	INT/A relay (devices excluded at ignition)
T14	30	Stop light control relay
T17	30	RH electric fan relay
T19	50	+30 Air pump relay
T20	30	Headlight washer pump relay
T26	30	Windscreen wiper relay (first speed)
T27	30	Windscreen wiper relay (second speed)

T28	30	Windscreen washer pump relay
T29	30	Supplementary stop light relay (third stop light)
T30	50	Air pump relay
T37	10/20	Left supplementary taillight relay
T38	30	Left headlight LED module power supply relay
T39	30	Right headlight LED module power supply relay
T31	30	Headlight washer pump relay
T40	30	Relay for +15 buttons
TXX	50	Starting relay 2
TYY	50	Starting relay 3



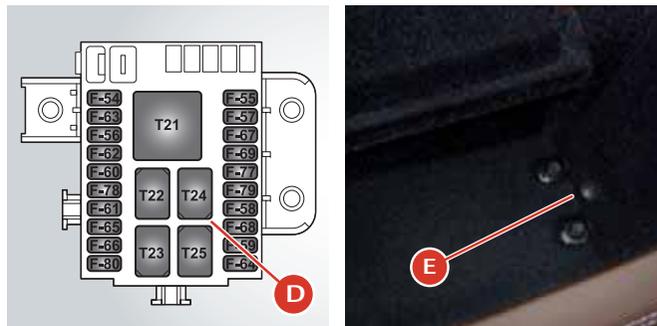
### Fuses and relays on centre console

To access these fuses, remove the cosmetic shield in the pocket change tray on the centre console by unscrewing the socket head screw **E**.

Box **D** contains the following relays (**R**) and fuses (**F**):

Ref.	Amp.	Use
F-54	20	+30 HI-FI amplifier
F-55	n.v.	NOT USED
F-56	30	+30 Driving position (NAG)
F-57	7.5	Side Markers 1 (LH front and RH rear)
F-58	n.v.	NOT USED
F-59	7.5	Reverse lights
F-60	30	+30 Passenger position (NAP)
F-61	7.5	+30 Driving position (electronic NAG)
F-62	7.5	+30 Passenger position (electronic NAP)

F-63	15	+30 Electronically controlled gearbox main relay (NCR)
F-64	7.5	Fuel filler flap actuator
F-65	20	Door lock actuator
F-66	7.5	+30 Electronically controlled gearbox
F-67	7.5	Side Markers 2 (RH front and LH rear)
F-68	n.v.	NOT USED
F-69	n.v.	NOT USED
F-77	n.v.	NOT USED
F-78	15	+30 Battery charger
F-79	n.v.	NOT USED
F-80	n.v.	NOT USED
T21	50	Side Marker relay
T22	30	Reverse light relay
T23	30	Fuel filler flap relay
T24	10/20	Supplementary taillight switch relay
T25	30	Electronically controlled gearbox main relay





### Replacing a wheel

**Important note** 

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

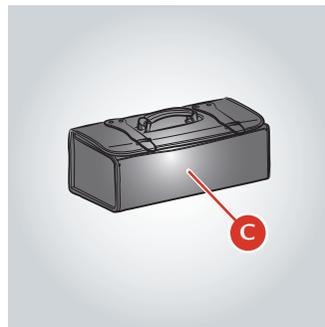
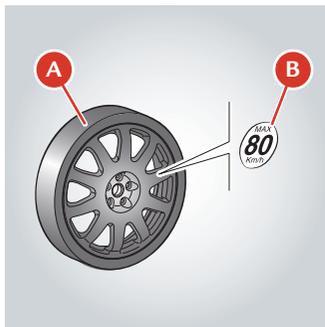
- replace the wheel stud bolts with damaged threads or tapers;
- carefully clean the wheel stud bolts before fitting;
- do not lubricate the contact surfaces between the stud bolt and the wheel rim and between the wheel rim and the brake disk.

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

### Collapsible spare wheel

On request, the vehicle comes with a kit containing:

- collapsible spare wheel **A** with space-saving tyre; the label **B** indicates the maximum speed allowed of 80 km/h;



- additional tool bag **C** containing: jack and wrench to fasten the wheel stud bolts.

**Warning** 

The spare wheel must only be used for short trips in the event of an emergency.

When the spare wheel is fitted, never exceed the maximum speed of 80 km/h and drive carefully, especially around bends and when overtaking, avoiding sudden accelerations 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.

**Important note** 

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

4 



### Replacing a wheel

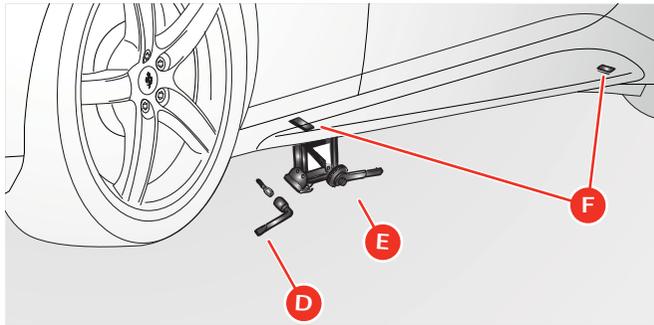
- Position the vehicle on an even surface, then block the rear wheels by applying the parking brake.

#### Warning



Make sure that the vehicle is in a safe position.

- If necessary, switch on the hazard warning lights and place the hazard triangle at the required distance from the vehicle.
- Take the spare wheel and tools out of the luggage compartment.
- Loosen the five wheel stud bolts approximately one turn each using wrench **D** supplied.
- Place the base of the jack **E** on flat firm ground under one of the jacking points **F** on the underfloor as shown in the figure.



- Lift the vehicle carefully using the jack **E** until the wheel is raised off the ground.

#### Warning



If the jack is not positioned correctly, the vehicle could slip off. No part of the body must ever be under the vehicle. The provided jack must only be used for replacing wheels.

- Unscrew the five stud bolts and remove the wheel.
- Fit the uninflated collapsible spare wheel.
- Screw the stud bolts into place but do not tighten them.

#### Warning



Inflate the collapsible spare wheel before lowering the vehicle to avoid damaging the rims.

- Inflate the collapsible spare wheel using the inflation kit.



### Warning



The kit must be used in “tyre inflation” mode. Refer to the instruction manual provided with the kit.

- Inflate to the indicated pressure (see page 30).
- Lower the vehicle and remove the jack.
- Tightly fasten the stud bolts, alternately going from one stud bolt to one that is diametrically opposite.

As soon as possible, secure the stud bolts with the torque wrench and tighten them to a torque of 100 Nm.

### Warning



The space saver spare wheel does not have a tyre pressure monitoring sensor (see label on spare wheel tool bag). After fitting, it is not checked by the system but complies with international regulations ECE R64/01.

After fitting, we recommend that you go to the nearest FERRARI SERVICE NETWORK.

### Towing

When towing the vehicle, avoid using anchor points that are not those for the tow hook **A** inserted in place **B**.

- Take the tow hook **A** out of the tool bag.
- Tightly screw the tow hook into place **B**.
- Release the EPB.
- Release the Park Lock.

### Warning



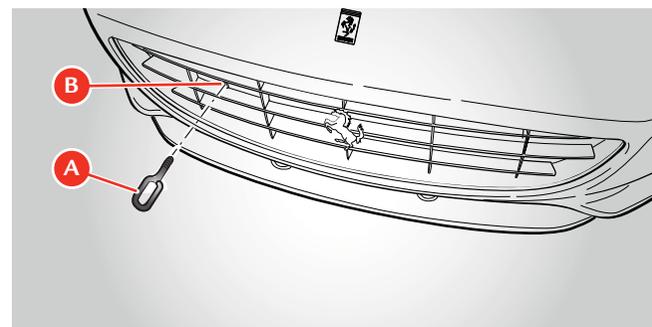
If there is an electrical system failure, release the EPB and Park Lock manually (see pages 244-246).

### Warning



While towing the vehicle, you must comply with Road Regulations.

4





### Warning



Do not tow the vehicle by attaching to levers, suspension and wheel rims but only to the tow hook properly fitted in place. Keep the key in position II to enable the lights to work and prevent the steering wheel from locking if it is turned; when towing the vehicle, do not start the engine.

### Important note



Remember that when the engine is switched off, the power steering and brake servo functions do not work.

### Fuel inertia switch

This is a safety switch **A** located in the passenger compartment, on the floor in front of the driver seat, which deactivates the fuel pump relays if a collision occurs.

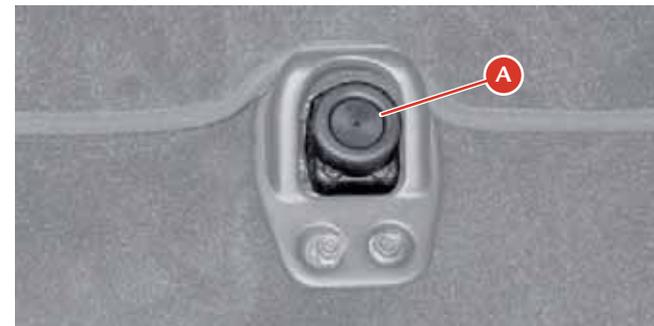
A symbol on the TFT display and the hazard warning lights come on to indicate that the switch has been activated.

When activated, the doors are also unlocked (if locked) and the central dome light comes on.

### Warning



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





### Battery quick release

It is on the battery and can be accessed by opening the engine compartment lid and removing the central cosmetic shield.

Use the locking lever **B** to loosen the clamp.

Separate the clamp from the battery to disconnect the battery and the electrical system.

#### Warning



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

#### Warning



Place the clamp so that it does not come into contact with the battery pole or other metal parts of the vehicle.



### Disconnecting the battery

Before disconnecting the battery, deactivate the electronic alarm using the remote control.

#### Warning



The battery quick release connector may only be used by qualified personnel, should it not be possible to connect the battery conditioner.

The battery is an integral component of the vehicle, and required the vehicle itself to be used frequently in order to function correctly.

Infrequent vehicle usage may reduce battery performance or result in complete battery failure. Constant usage of the specific battery conditioner provided by FERRARI for each model ensures that the original battery installed in the vehicle is kept charged correctly and in working order.

#### Warning



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 centimetres to avoid damaging the strips when opening and closing the doors.



### Warning



When the battery is connected and charged, this operation is automatically performed when the doors are opened and closed. The windows must remain lowered until the charged battery is reconnected. If the battery is discharged with the windows completely raised, only open the door if necessary and use the utmost caution; do not close the door again until the windows can be lowered.

### Important note



We recommend using the battery conditioner if the vehicle is going to left unused for a long period.



### Reconnecting the battery

Place the clamp on the battery and fasten it by closing the locking lever.

Each time the battery is reconnected, do the following before starting the engine:

- close both doors and close the luggage compartment lid; unlock and lock the doors using the remote control; open the luggage compartment lid using the remote control;
- adjust the clock (date and time on instrument panel);
- close both doors and fully raise the driver side and passenger side windows to their upper limit; check that the windows move down to the “target position” when the doors are opened.

### Warning



WAIT at least 1 minute before inserting the key in the ignition switch.

Before starting the engine, wait at least 60 second with the ignition key in position II to allow the electronic system that controls the motor-driven valves and the AC ECU to run a self-acquisition process.

During this period, no devices must be activated.





The Motronic ECU self-acquisition cycle will only function correctly when the intake air temperature is above 5 °C (41 °F).

After removing the battery from the vehicle or disconnecting it from the electrical system using the battery master switch, it is important to check that the external temperature is within the indicated values when reconnecting before performing the self-acquisition cycle.

#### *Checking the battery*

The battery is placed in the centre of the engine compartment.

The vehicle is equipped with a sealed lead acid battery that does not require maintenance.

#### **Warning**



The battery does not need topping up with distilled water or sulphuric acid.

- Periodically check that the terminals and pins are clean and firmly secured.
- Visually inspect the outer casing for any cracks.
- If the battery overcharges, it will wear out quickly. Have the vehicle electrical system checked if the battery tends to discharge easily.

4

#### **Warning**



Do not place the battery near sources of heat, sparks or naked flames.



### *Emergency starting*

If the battery is flat, you can perform an emergency start by connecting the special jump leads to the battery of another vehicle, a portable jump starter or an external battery.

#### **Important note**



Emergency starting can only be performed with batteries with a nominal voltage of 12 V.

#### **Important note**



For emergency starting, only use leads that do not allow reverse polarity, with sufficient cross-section and insulated clamps.

To perform an emergency start, do the following:

- Apply the parking brake.
- Deactivate all the electrical devices.
- Remove cover of the fuse box located above the positive terminal on the right side of the battery.
- If emergency starting is performed using the battery of another vehicle, leave the engine on the other vehicle to idle.
- Using the jump leads, connect the positive terminal of the battery to the positive terminal of the portable jump starter or external battery going from the battery on your own vehicle.
- Connect the negative terminal of the portable jump starter or external battery to an earthing point on your vehicle using the jump lead going from the external battery.
- Start the engine.
- Disconnect the jump lead from the earthing point and then from the positive terminal of the battery on your vehicle.

#### **Warning**



The emergency start procedure must only be performed by a specialised **FERRARI SERVICE NETWORK** centre.





## Battery conditioner

The vehicle is equipped with a battery conditioner to maintain and recharge the battery.

### Important note



If a battery is not periodically maintained, it will become irreversibly discharged. The time taken to reach this state depends on the battery charge level and we therefore recommend that you always use the battery conditioner when parking for over 70 hours.

The device is kept in a pocket inside the car cover bag supplied with the vehicle. The socket for the battery conditioner is installed at the back of the vehicle on the luggage compartment lid next to the number plate light.

Connection is via a magnetic coupling.



### Warning



Place the battery conditioner where it can be easily seen away from heat sources and out of children's reach.

If the car is going to be left unused for periods longer than one week, we recommend that you connect the battery conditioner in order to keep the battery in good working order.

### Warning



To avoid damaging the conditioner and vehicle, always disconnect the magnetic coupling before starting the vehicle.

### Important note



Additional more detailed technical and safety information on use of the device can be found in the leaflet supplied with the vehicle.

4





## Exhaust system overheating alarm devices ("Slow Down" function)

If the engine is running unevenly resulting in exhaust system overheating, the "Slow Down" function is activated: a special symbol (see page 149) appears on the TFT display accompanied by a message.

The message varies according to three alarm levels:

- **Temperature high:** "Catalysts temp. high. Slow down".
- **Temperature too high:** "Catalysts temp. too high. Engine performance limited".
- **Catalytic converter temperature system failure:** "Catalysts temp. not plausible. Go to dealer slowly".

Displaying of the message is controlled by the thermistor via the engine control ECU.

### Warning



Incorrect use of the vehicle may cause the "Slow Down" function to be activated.

### Warning



If the temperature is **high**:  
slow down immediately so that the exhaust system temperature decreases.

### Warning



If the temperature is **too high**:  
the temperature in the catalytic converters has reached a dangerous level and could damage them; if you continue to drive, the engine control ECU intervenes and reduces the torque produced by the engine.  
The torque limit remains active until the catalytic converter temperature goes down to normal operating values.

### Warning



If catalytic converter temperature system failure information is displayed:  
- the engine control ECU intervenes and reduces the torque produced by the engine;  
- the driver must slow down and slowly drive to the nearest **FERRARI SERVICE NETWORK** to have the engine parameters checked.

### Warning



If the EOBD warning light (see page 149) comes on at the same time as the "Slow Down" message, go to the **FERRARI SERVICE NETWORK** to have the ECU error memory checked. Do not proceed in any other way.



### Clutch overheat alarm devices

High performance use of the vehicle at high engine speeds for prolonged periods and at high ambient temperatures may cause the DCT gearbox clutch to overheat. In this case, the following safety warnings will be displayed on the TFT display, corresponding to two different alarm levels:

- The message “Clutch overheated”.
- The message “Clutch overheated” accompanied by an audible warning signal.

When the message “Clutch overheated” is displayed, the driver may notice a difference in the behaviour of the system during gearshifts and/or during standing starts.

#### Important note



Certain high performance actions (such as, but not limited to: “LAUNCH” control start, standing start with wheelspin with Manettino set to ESC OFF, etc.) may be inhibited to prevent excessive overheating of the clutches: the system warns the driver that the action is not permitted, visualising the message “Operation not admissible” on the TFT display.

#### Warning



As soon as any of the warnings described above appear on the TFT display, the driver must slow down and continue driving at an engine speed between 2000 and 3000 rpm and minimising gear shift frequency to allow the clutches to cool down as quickly as possible, and maintain these driving conditions until the message “Clutch overheated” is no longer displayed.

### Engine malfunction alarm devices

If the “**Engine diagnostic system failure**” (EOBD) warning light flashes or illuminates permanently while the engine is running, it indicates that the engine or the emission control system may be malfunctioning.

The electronic system detects and isolates the error preventing damage to the engine or the production of harmful emissions.

#### Warning



When the “engine diagnostic system failure” warning light comes on, engine performance may be considerably reduced. Drive carefully, avoiding sudden acceleration and high speeds. Contact the FERRARI SERVICE NETWORK immediately.

4





## Replacing the brake pads and discs

### Brake pads

The front brake pads have a wear detector connected to the brake warning light; if this warning light comes on or braking is not even, have the pad thickness and the state of the braking surfaces checked.

The minimum brake pad thickness is 3 mm (thickness of the friction material only).

### Replacing brake pads

When the brake failure warning light comes on, it means that the front brake pads are excessively worn and must be replaced immediately.

#### Warning



To guarantee the quality of the components and proper installation, we recommend that you have the brake pads replaced at a **FERRARI SERVICE CENTRE**.

After replacement, avoid sudden braking until the new pads are seated properly (approximately 300 km).

## Manual closing of the retractable hard top

#### Warning

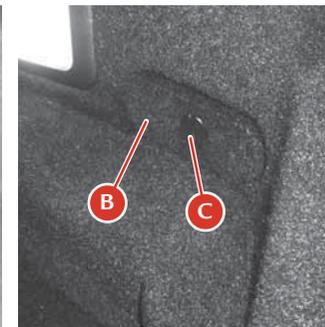
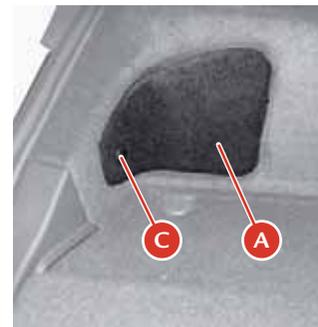


For manual closing of the retractable hard top, two people are required.

The movements must be slow and synchronised.

If the retractable hard top cannot be moved electronically, it can be closed and moved manually. To perform the operations described below, two people are required.

- Completely lower the side windows.
- Open the luggage compartment lid.
- Disconnect the battery by detaching the quick release.
- Lift up the luggage compartment lid.
- Open the left **A** and right **B** sections of the luggage compartment by turning the relative fasteners **C**.





- Locate the Tonneau Cover latch **D** in the left section.
- Locate the Tonneau Cover latch **E** in the right section.
- Insert the special wrench in the tool kit supplied with the vehicle in the Tonneau Cover housing.
- Turn the wrench clockwise to release the left Tonneau Cover latch and turn the wrench counterclockwise to release the right Tonneau Cover latch.

**Warning**



Make sure that flaps **F** and **G** shown in the figure have opened correctly. If they are not fully open, **DO NOT** effect the emergency manoeuvre to avoid causing possible damage.

- Lower the luggage compartment lid.

**Warning**



**DO NOT** close the luggage compartment completely.

4





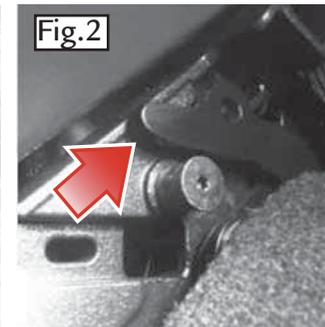
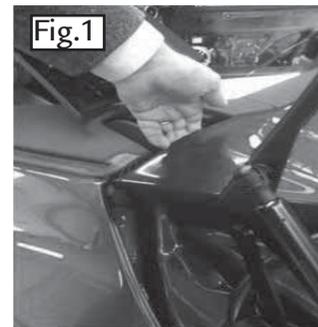
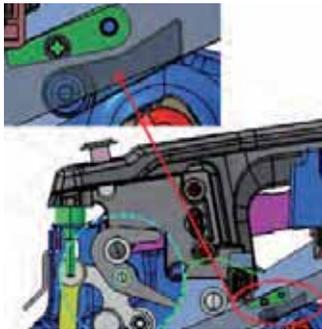
### Important note



When manually opening the retractable hard top, special care must be taken not to damage the internal mechanisms which may jam during the initial lifting stage when the system is not hydraulically operated.

To avoid damaging the mechanisms, when first manually opening the retractable hard top (**Fig. 1**), simply push the RH and LH kinematic hooks (**Fig. 2**) towards the front of the vehicle while the top is being lifted (**Fig. 1**).

Once the Tonneau Cover has been raised by approximately 100 mm without forcing it, you can continue to open it by releasing the hooks in **Fig. 2**.





- Lift up the Tonneau Cover until it is completely open.

**Important note**



Two people are required to open and close the retractable hard top using slow, synchronised movements.  
Use the holds as shown in the figure by the arrows.



- Hold the front - rear roof package stored in the luggage compartment and get ready to lift it.

**Important note**



To do this, hold the package with both hands working on both sides of the vehicle.

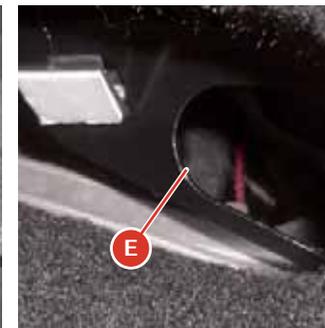
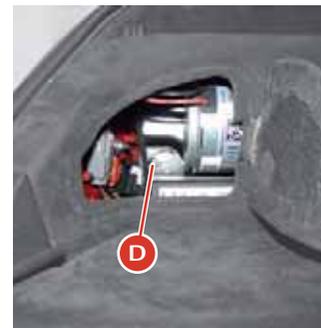


4



- Lift the front-rear roof package right up and let it drop down until it touches the windscreen pillars.
- Lower the Tonneau Cover and let it drop until it has gone into its housing.

- Lift up the luggage compartment.
- Lock the Tonneau Cover latch.
- Insert the wrench in housing **D** on the left of the luggage compartment and turn it counterclockwise.
- Insert the wrench in housing **E** on the right of the luggage compartment and turn it clockwise.





- Close the rear roof by holding it with both hands and working on both sides of the vehicle and let it drop down until it goes into its housing.

**Warning**



To do this, hold the rear roof with both hands and work on both sides of the vehicle.

- Move the roof internal covering fabric **H** until you find the rear roof latch **I**.
- Release the rear roof latch by turning the special wrench clockwise; do this in the left lock and then the right one by turning the key very carefully to avoid damaging the cover.

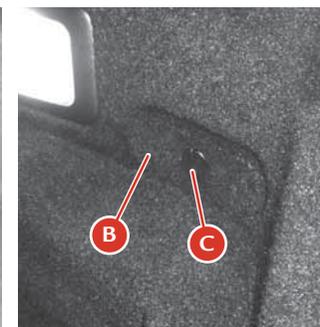
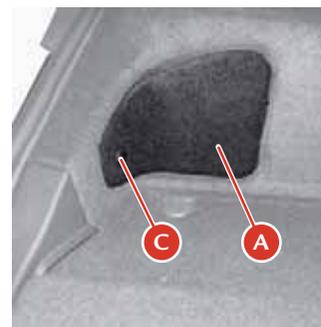
**Warning**



Make sure that it has locked and if not, repeat the procedure.

- Reposition the fabric on both sides.
- Close the left section with fabric **A**.
- Close the right section with fabric **B**.
- Fasten both covers by turning the fasteners **C**.
- Close the luggage compartment lid.

4





## Emergency release of the electric parking brake (EPB)

### Warning



The release procedure must only be carried out by specialised workshop technicians.

If the system cannot be released, contact the nearest **FERRARI SERVICE CENTRE**.

### Warning



When the electric parking brake is deactivated manually, the vehicle may move unexpectedly!

To keep the vehicle stationary, the Park Lock safety device must be applied: make sure that the letter “P” appears on the gearbox display.

If the vehicle needs to be moved but the electric parking brake cannot be deactivated because the battery is flat or there is a failure in the electrical system that controls it, the emergency release procedure described below must be performed.

- Open the luggage compartment lid.
- Remove the tool kit cover.
- Take wrench **A** for EPB emergency release out of the tool bag.

### Warning



Wrench **A** may only be used by specialised workshop personnel, as indicated in the label **C** on the toolkit itself





- Using the special rectangular slot **D** on the LH side of the tool kit (indicated by a plate), place the release wrench in the hole (in the top of the slot) and turn it clockwise.

This movement loosens the parking brake cables.

#### Important note



To release the brake completely, the wrench needs to be turned 50 times and it starts to be released after approximately 20 turns.

Once the electric parking brake has been manually released, the EPB node records a failure at the next key-on and a symbol and the following message “Parking Brake system revision. Go to dealer” is displayed on the TFT display.

#### Warning



The parking brake resumes normal operation but it is important to go to the nearest workshop to have it calibrated and delete any errors in the error memory.

Go to a **FERRARI SERVICE CENTRE**.

Calibration is necessary for safety reasons.

4





## Park Lock emergency release

### Warning



The emergency release procedure must only be carried out by specialised workshop technicians.

If the system cannot be released, contact the nearest FERRARI SERVICE CENTRE.

### Warning



This should be avoided unless absolutely necessary:

- to tow the vehicle;
- if there is a Park Lock failure (the following message is shown on the TFT display: “Only manual unlock gearbox allowed: See handbook”).

### Warning



When the Park Lock safety device is deactivated manually, the vehicle may move unexpectedly.

The vehicle is only kept stationary by the parking brake, if applied.

To perform the Park Lock emergency release procedure, do the following:

- Take the wrench **B** out of the tool kit.

### Warning



Wrench **B** may only be used by specialised workshop personnel, as indicated in the label **C** on the toolkit itself.





The Park Lock manual emergency release device is located in the top right of the luggage compartment floor, as shown by the arrow in the figure.

- Remove the rubber cap **F** that protects the device.
- Insert the wrench **B** in its seating on the device.

**Important note**



Make sure that notch **G** of wrench **B** fits onto pin **H** in the housing of the device.

- Turn wrench **B** counterclockwise for a quarter turn.

If the electrical system allows it, check that the letter “N” appears on the gearbox display by turning the ignition key to position II. The following message appears on the TFT display: “Gearbox not in Parking position”. At the same time, an audible signal is repeated four times to indicate that it has been released.

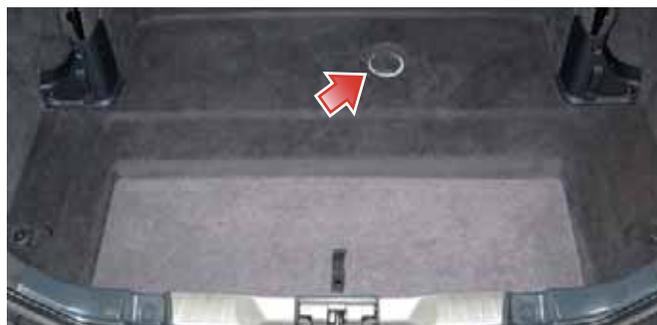


**Important note**



Once the vehicle has been moved to a safe place, the Park Lock device must be reset.

4





To reset the Park Lock, do the following:

- Insert the wrench **B** in its seating on the device, in the luggage compartment.
- Turn the wrench clockwise.

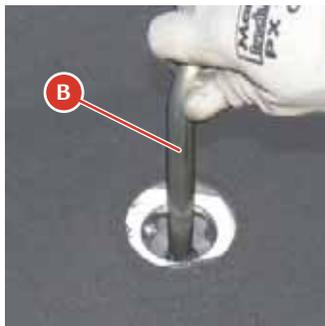
If the electrical system allows it, check that the letter “**P**” appears on the gearbox display by turning the ignition key to position **II**.

- Close the device with the rubber cap.
- Close the luggage compartment lid.

### Warning



In the event of emergency unlocking due to a Park Lock failure, go to the nearest FERRARI SERVICE CENTRE to resolve the problem.







1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

**5. Care of the vehicle**

6. Glossary

7. Table of Contents







## Warranty Booklet

The vehicle comes with a “Warranty Booklet”.  
This contains the vehicle’s warranty validity conditions.

### Warning



The warranty booklet also contains special blank spaces where the FERRARI SERVICE NETWORK 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.

### Important note



All repair work on any safety system component must be performed by the FERRARI SERVICE NETWORK.

## Maintenance schedule

At the intervals prescribed, the FERRARI SERVICE CENTRES must perform all the fine-tuning and checking operations indicated in the “Warranty Booklet”.

It is however advisable to immediately report any small fault which may occur during use of the vehicle (e.g.: small leaks of essential fluids) to FERRARI SERVICE CENTRES and not wait until the next service is due to correct the problem.

Periodic maintenance services must be performed at least once a year even if the specified mileage limit has not been reached (see “Yearly Maintenance” in the “Warranty Booklet”).

## Chassis and bodywork maintenance

The chassis 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.

### Important note



If the chassis is damaged in an accident, FERRARI advises customers to contact the FERRARI SERVICE NETWORK who will perform the necessary safety checks.

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 Booklet” in order to have it checked.





### Level checks

**Important note** 

The level checks must be performed at the intervals indicated in the “Warranty Booklet” or, in any case, before starting a long journey.

**Environment** 

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.

**Important note** 

Only use lubricants and/or fluids recommended by FERRARI (see the “Refilling” table on page 36).

### Engine oil

**Warning** 

The engine oil level must be checked when the engine is warm.

**Warning** 

The engine oil level must be checked when the vehicle is on level ground.

The symbol, shown below, on the TFT display and the message “Check engine oil level” inform the driver that the engine oil level must be checked.



Proceed as follows:

- Run the engine until the engine oil temperature has reached 90 °C (194 °F).
- A. Keep the engine idling (720 RPM) for 5 minutes.
- B. Switch off the engine.

**5**

**Warning** 

The oil must be checked when the ENGINE IS OFF.

- C. Open the engine compartment lid.
- D. Completely remove the dipstick **1** on the left side of the engine.



E. Remove the oil filler cap **2** and wait 5 minutes for the oil to drain back into the oil pan.

**Warning**



If the oil level is below the “MIN” reference mark, top it up and then have the system checked by the **FERRARI SERVICE NETWORK**.

F. Clean the dipstick, reinsert it, remove it and check that the oil level on dipstick **1** is between the **MIN** and **MAX** reference marks.

**Important note**



The distance between the **MIN** and **MAX** reference marks corresponds to approx. 1.3 litres of oil.

**Warning**



**DO NOT** add oil with different characteristics from those of the oil already in the engine.

If the level is close to or under the **MIN** reference mark, top up with the recommended oil.

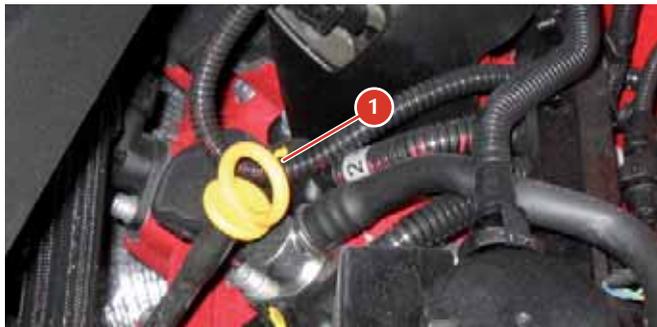
**Warning**



**DO NOT** fill beyond the **MAX** level.

G. Top up until the oil reaches the **MAX** mark on the dipstick.

After topping up, the “low oil level” warning light on the TFT display may remain on for some time. This will allow the system to perform all the necessary checks.





You should therefore consider this behaviour normal.

**H.** When you have added or changed the oil, check the oil level once again as indicated above.

### Environment



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

*DCT electronically controlled gearbox oil*

### Important note



We recommend that you have the oil level of the electronically controlled gearbox checked by the **FERRARI SERVICE NETWORK** or by skilled staff.

### Coolant

### Warning



This procedure must always be performed when the engine is cold. Never remove the cap from the expansion tank when the engine is running or warm.

- Remove the cap **3** 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.

### Important note



If frequent top-ups are required after short trips, have the system checked by the **FERRARI SERVICE NETWORK**.

- Screw cap **3** back on tightly.

5





### Hydraulic steering system oil

#### Warning



The power steering oil level must be checked with the engine warm, after having driven at least 15 km.

#### Warning



If the oil level is below the “MIN” reference mark, top it up and then have the system checked by the **FERRARI SERVICE NETWORK**.

The power steering tank is located to the left of the engine compartment.

Remove cap 4 from the tank in the engine compartment and check that the level is between the **MIN** and **MAX** reference marks 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** reference mark.

Screw cap 4 back on tightly.





Environment 

Never dispose of used fluid in the environment.

Environment 

Never dispose of used fluid in the environment.

*Brake fluid*

- Check that the fluid in the tank is near the MAX level.

Warning 

Clean cap 5 before removing it.

- If the level is low, unscrew the cap 5 and top up with the recommended oil taken from a sealed container.

Warning 

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 from children's reach!

5 





### Warning



The use of mineral-based fluids will irreparably damage the system rubber gaskets.

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

- After topping up, screw the filler cap back on.

#### *Windscreen and headlight washer fluid*

The windscreen and headlight washer fluid tank can be accessed by lifting the engine compartment lid.

- Lift cap **6** and fill the tank with the recommended fluid (see the “Refilling” table on page 36) until it can be seen in the fluid filling manifold.
- Close the cap **6**.

#### **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 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*

### Important note



To ensure safe driving, the tyres must be kept in good condition.

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





Never reduce the pressure if the tyres are hot.

**Environment** 

Periodically check the tyre pressure. Driving with the tyres inflated to the correct pressure helps to reduce fuel consumption.

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

**Warning** 

Inflating the tyres to a pressure other than the specified value will render the TPMS monitoring system ineffective.

Sudden impact with pavements, potholes 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.

**Warning** 

The maximum speed supported by the winter tyres (see page 31) is lower than that supported by the summer tyres. Always check the maximum speed rating indicated on the tyre by the tyre manufacturer.

**Warning** 

The FERRARI SERVICE NETWORK is suitably equipped to replace tyres, and to determine whether a tyre is safe for use.

Have the tyres replaced by the FERRARI SERVICE NETWORK that has the necessary equipment available to avoid causing damage through carelessness to the sensor located inside the wheel rim (on vehicles with the tyre temperature and pressure monitoring system - TPMS).

**Important note** 

The FERRARI SERVICE NETWORK can certify whether aged tyres are suitable for use.

**Warning** 

Replace the tyres at intervals no longer than 4 years of normal usage, even if the maximum mileage specified has not been exceeded.



Never fit tyres of uncertain origin.

### Warning



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. When replaced, 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.

### Warning



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 Booklet”, have the FERRARI SERVICE NETWORK check the wheel toe-in and camber.

#### **Maintenance of seat belts and pretensioners**

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





## Cleaning the vehicle

### Cleaning the exterior

#### Environment



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.

Here is a list of the main precautions to be taken:

- Certain parts of the vehicle should not be left wet or dirty for long periods of time: in particular, the passenger compartment floor and the luggage compartment must always be kept clean and dry. The draining holes under the doors should be kept unclogged to allow any water to drain.
- The underbody and the lower surfaces of the vehicle should be cleaned regularly, and more frequently (at least once a week) if the vehicle is used on salty or rough roads. The vehicle should be cleaned thoroughly and carefully: cleaning that merely wets encrusted mud without removing it completely can prove damaging.
- The vehicle must be washed regularly with suitable equipment. Do not use very hot water or steam to clean the paintwork and the lower surfaces. It is advisable to soften any dirt first, then remove it with a jet of water at room temperature.

#### Important note



Do not use aggressive products for cleaning the windows. The use of aggressive products could seriously damage the bodywork.

- Do not wash the vehicle in direct sunlight or when the bodywork is still warm: make sure that the jet of water does not blast the paintwork; wash the vehicle with a sponge and a mild soap and water solution; rinse the vehicle again with a jet of water and dry it with a chamois leather.

#### Important note



When the vehicle has been washed, apply slight pressure to the brake pedal at moderate speed before driving at a normal speed, until the brake discs and pads have cleaned off.

In order to maintain the shine on the paintwork, polish it once or twice a year with products recommended by FERRARI.

- Any areas that are cracked or chipped by stones, scratches or parking manoeuvres, etc., must be immediately repaired by the FERRARI SERVICE NETWORK.
- Do not park the vehicle in damp and/or unventilated areas for long periods of time.

5



#### *Cleaning and care of matt paintwork (optional)*

##### **Warning**



The paintwork **MUST NOT** be polished using any type of product.

Owners must take great care of vehicles with matt paintwork (optional).

Here is a list of the main precautions to be taken:

- Wash the vehicle using a steam cleaner and rinse with demineralised water only.
- It must be dried using an automatic dryer or compressed air. Manual drying can **ONLY** be performed using a clean 3M microfibre yellow cloth that has been soaked in demineralised water in the areas where limescale deposits are present. The cloth must be kept in a special clean container.
- To clean any grease or oil marks, a clean 3M microfibre yellow cloth soaked in R107/S solvent (heptane) can be used. A new cloth must be used and it must not have been previously soaked in demineralised water.
- Do not wash the car in direct sunlight.
- Wash the vehicle only when the bodywork and engine are cold.
- Do not apply stickers to the bodywork.



- Any areas that are cracked or chipped by stones, scratches or parking manoeuvres, etc., must be immediately repaired by the **FERRARI SERVICE NETWORK**.

##### **Important note**



**DO NOT** lean against the vehicle especially if you are wearing clothes with buttons, buckles or are wearing rings, necklaces, etc. This may cause irreparable damage to the bodywork.

##### **Important note**



To use suitable products, contact the **FERRARI SERVICE NETWORK**.

#### *Cleaning of protective anti stone-chipping film (optional)*

The film has been designed to protect the bodywork: anything that damages the paint will also damage the film.

##### **Warning**



**Do not** pour denatured ethyl alcohol, acetone, isopropyl alcohol, heptane or substances that contain these compounds on the film.

- Do not apply adhesive elements on the film.
- When cleaning, do not use metal or abrasive substances in general and acid chemical compounds.





### Important note

Avoid the film coming into contact with the brake fluid: the film will become opaque.

- Do not use solvents along the edges of the film to them from penetrating inside the adhesive layer.

### Important note

Nürburgring Silver, Avus White, Alloy Grey, Met Avio, Ivory, Met Light Blue, Met Sky-Blue and Fuji White vehicles must be washed every month and waxed at least twice a year so that dirt, acid rain, pollutants, etc. do not penetrate the pores of the film and cause it to tarnish.

### Important note

We recommend replacing the film every 24 months for vehicles in Nürburgring Silver, Avus White, Alloy Grey, Met Avio, Ivory, Met Light Blue, Met Sky-Blue and Fuji White, as the finish quality may deteriorate slightly (yellow tarnish) due to dirt accumulated in the porous surface of the film.

It should be noted that timely and accurate cleaning (monthly washing and waxing twice a year at least) will prevent deterioration of the film.

## Cleaning the interior

### *Cleaning and care of the leather upholstery*

As indicated in the “Maintenance Schedule” (see the “Warranty Booklet”), 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.

### Important note

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, petrol, solvents and domestic cleaning products. All of these products damage the natural material.

5



### *Cleaning and care of the Alcantara® upholstery*

#### **Warning**



**Do not use steam cleaners.**

- Carefully dust the parts to be cleaned.
- Use a soft cloth or sponge moistened with clean water.
- Thoroughly wring out the cloth and wipe it over the entire Alcantara® area making sure you do not overwet it.
- Repeat the procedure.
- Let it dry completely.
- To recondition the material, gently use a brush with soft bristles.



### **If the vehicle is stored for long periods**

If the vehicle is not used for long periods of time, certain precautions should be taken:

- if possible, park the vehicle on a level surface in a covered and well-ventilated area;
- prevent the vehicle from moving by engaging a gear;
- bring the tyre pressure to 3.0 bar and periodically change the point where the tyres rest on the ground;
- connect the battery conditioner (see page 235);
- protect the vehicle with a breathable fabric cover and avoid materials that 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.





### Important note



If you do not intend to connect the battery to the battery conditioner, the battery must be recharged at least once every two weeks to keep certain functions, such as the radio station memory, alarm system, etc., working correctly.

The battery is an integral component of the vehicle, and requires the vehicle itself to be used frequently in order to function correctly.

Infrequent vehicle usage may reduce battery performance or result in complete battery failure.

Constant usage of the specific battery conditioner provided by FERRARI ensures that the original battery installed in the vehicle is kept charged correctly and in working order.



1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the vehicle

**6. Glossary**

7. Table of Contents







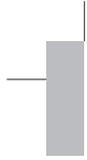


Abbreviation	Meaning
<b>ABS</b>	(Anti-lock Braking System) The ABS prevents wheel locking when braking so that vehicle handling can be maintained.
<b>AC</b>	Air conditioning.
<b>ASR</b>	(Antriebs Schlupf Regelung) Anti-skid regulation during acceleration.
<b>Auto easy exit</b>	Simplified function gear shifting. To exit “Auto easy exit” mode, simply operate one of the two shift paddles.
<b>Autopark</b>	Automatic activation of the electric parking brake (EPB) when the engine is switched off. This function can be disabled.
<b>AVH</b>	Automatic Vehicle Hold Additional function of the electric parking brake (EPB): it allows gradual release of brake shoes/pads when the vehicle starts up. This guarantees an optimised release for the vehicle and is an aid for the driver.
<b>DCT</b>	Dual Clutch Transmission Each clutch is associated with a part of the gearbox, one is designed for engaging even gears, the other for odd gears. Once a gear has been engaged, the system has already preselected the next one. After reaching the correct RPM, a clutch opens and at the same time the other one closes, so that the traction force is not interrupted.
<b>Disposal</b>	The procedure laid down in Directive 2000/53/EC and the implementation standard.
<b>EBD</b>	(Electronic Brake-Force Distribution) Electronically-controlled brake-force distribution.
<b>ECU</b>	Electronic Control Unit.
<b>EPB</b>	Electric Parking Brake The system operates by means of an ECU and an electric motor on the rear brake shoes.
<b>ESC</b>	Stability and Traction Control. It consists of two systems: VDC and F1-Trac.
<b>F1-Trac</b>	Traction control derived from the technologies used in the racing sector. The system can estimate the maximum available grip in advance by continuously monitoring the relative wheel speed and using an auto-adaptive operating logic. Comparing this information with the vehicle dynamics model stored in the control system, F1-Trac, optimises the vehicle behaviour by controlling engine torque delivery.



Abbreviation	Meaning
<b>Homologation</b>	The procedure laid down in Directive 2007/46/EC and the implementation standard.
<b>Launch Control</b>	Strategy for performance standing starts.
<b>Manettino</b>	The driving mode control switch is a quick, intuitive way to make the most of vehicle potential.
<b>Park Lock</b>	Automatic DCT gearbox park lock. When the engine is off, a mechanical lock is automatically activated to prevent the vehicle from moving if the electric parking brake is not activated.
<b>RHT</b>	Retractable Hard Top.
<b>TFT display</b>	Multifunction colour display on the instrument panel that provides vehicle information.
<b>TPE</b>	Turbo Performance Engineer, a display that gives the driver information on turbo engine performance.
<b>TPMS</b>	Tyre Pressure Monitoring System. Using special sensors fitted inside the wheel rims next to the air valve, the data measured is sent to an ECU. The data and messages are displayed on the TFT display.
<b>Traction power</b>	Force exerted by the vehicle on the road surface through the wheels; it indicates the grip.
<b>VDC</b>	Vehicle Dynamic Control performed through the braking system and engine torque.
<b>Xenon headlights</b>	Headlights on the front of the vehicle that produce a more intense beam by using a voltaic arc rather than an incandescent spiral.







1. General

2. Safety

3. About your Vehicle

4. Advice for Emergency Situations

5. Care of the vehicle

6. Glossary



**7. Table of Contents**







# Index

## Symbols

12V power socket ..... 204

## A

Abbreviations ..... 10  
 ABS ..... 68  
 Activating Cruise Control ..... 163  
 Activation of electronic alarm ..... 17  
 Active safety ..... 43  
 Adaptive headlights (optional) ..... 129  
 “Adaptive Light Control” function display ..... 137  
 Adjusting display brightness ..... 133  
 Adjusting the air vents ..... 202  
 Adjusting the steering wheel ..... 196  
 Airbags ..... 56  
 Airbag system - Components ..... 56  
 Air conditioning and heating system ..... 199  
 Air conditioning and heating system controls ..... 199  
 Alarm memory ..... 19  
 Alarm system ..... 15  
 Auto easy exit ..... 172  
 “Auto easy exit” mode ..... 172  
 Auto Hazard ..... 128

Automatic gearbox ..... 172  
 “Automatic gearbox” mode ..... 172  
 Automatic Vehicle Holding ..... 70, 184  
 Autopark Function ..... 70, 184  
 AVH function ..... 70, 184

## B

Backrest and seat cushion side width adjustment ..... 195  
 Battery ..... 233  
 Battery conditioner ..... 234  
 Battery quick release ..... 231  
 Before a trip ..... 166  
 Before you drive ..... 173  
 Body Computer fuses and relays ..... 222  
 Brake fluid ..... 257

## C

Calibrating the TPMS system ..... 75  
 Capless filler neck ..... 90  
 Carwash ..... 179  
 Carwash procedure ..... 179  
 Chassis and bodywork maintenance ..... 252  
 Child restraint systems that can be installed  
 on the front passenger seat with 3-point seat belts ..... 77  
 Child restraint systems that can be installed  
 on the rear seats with 3-point seat belts ..... 77  
 Child restraint systems that can be installed  
 on the rear seats with ISOFIX ..... 78





Child safety .....	50	“Doors/Engine or luggage compartment lid open” function display .....	138
Cleaning and care of the Alcantara upholstery .....	264	DOWN-shifting .....	171
Cleaning and care of the leather upholstery .....	263	“DOWN” shift paddle .....	161
Cleaning the exterior .....	261	Drive Away function .....	183
Cleaning the interior .....	263	Driver and passenger airbags .....	58
Cleaning the parking sensors .....	144	Driver seat Easy Entry/Exit .....	196
Cleaning the vehicle .....	261	Driver-side power window .....	92
Closing the engine compartment lid .....	88	Driving at night .....	174
Closing the luggage compartment lid .....	89	Driving in fog .....	175
Clutch overheat alarm devices .....	237	Driving in the rain .....	174
Collapsible spare wheel .....	227	Driving on mountain roads .....	175
COMFORT mode .....	160	Driving on snowy or icy roads .....	176
Configuration of vehicle parameters .....	132	Driving style .....	10
Consumption .....	28	Driving the vehicle .....	165
Controls on the steering wheel .....	158	Driving using the driving mode control switch (“Manettino”) .....	177
Controls overview .....	82	Driving with the “ABS” braking system .....	176
Coolant .....	255	Dual View Camera (optional) .....	117
Cruise control .....	163	Duplicating the keys .....	16
<b>D</b>		<b>E</b>	
Day lights .....	127	Electrical system .....	28
DCT electronically controlled gearbox oil .....	255	Electric parking brake .....	183
Deactivating the anti-lift volumetric alarm .....	18	Electronic alarm .....	17
Deactivation of electronic alarm .....	18	Electronic speedometer .....	95, 153
Deformable body .....	43	Emergency opening - Fuel filler flap .....	91
Dimensions and weights .....	27	Emergency opening of fuel filler flap .....	91
Dome light .....	129		
Doors .....	86		



Emergency tyre repair and inflation kit .....	213
Emissions .....	28
End-of-life vehicle collection service .....	11
Engine compartment lid .....	88
Engine malfunction alarm devices .....	237
Engine oil .....	253
Environmental protection .....	10
EPB - Electric parking brake .....	70, 181
EPB emergency release .....	244
“ESCAPE” function .....	146
ESC OFF mode .....	160
ESC - Stability and Traction Control .....	69
Exhaust system overheating alarm devices .....	236
External lights failure display .....	140
External rear-view mirrors .....	198

## F

F1-Trac .....	69
Failure of turn indicators and running lights .....	147
Fault display .....	146
Ferrari CODE system .....	15
Flaps communicating with luggage compartment .....	204
Flashing the headlights .....	125
Follow me home .....	128
Front parking sensors (activation/deactivation) .....	158
Fuel filler cap and flap .....	90
Fuel inertia switch .....	67
Fuel level .....	134

Fuel level gauge .....	134
Fuse .....	220
Fuses and relays in the engine compartment .....	222
Fuses and relays on centre console .....	226

## G

Gearbox display .....	153, 156
General remarks .....	4
Global Closed .....	93
Global Open .....	93
Glossary .....	269
Glove compartment .....	202

## H

Hazard warning lights .....	128
Headlight bulbs .....	216
Headlight washer .....	162
High beams .....	125
Horn control .....	158
How to fasten seat belts .....	46
How to use the tyres .....	258

## I

Identification and homologation plates and labels .....	20
If the vehicle is stored for long periods .....	264
Ignition switch .....	85
Indication of AVH system activated .....	155





Indication of Launch Control activated .....	155	Maintenance .....	252
Instruments and gauges .....	94	Maintenance of seat belts and pretensioners .....	49, 260
Internal rear-view mirror .....	197	Maintenance schedule .....	252
<b>K</b>		Manettino .....	159, 160
Key codes .....	14	Manual closing of the retractable hard top .....	238
Key lock .....	85	Matt paintwork .....	262
<b>L</b>		MENU .....	132
Launch Control .....	180	MENU screen page .....	132
Leather upholstery .....	263	<b>N</b>	
Level checks .....	253	N - Neutral .....	171
Light bulbs .....	219	Number plate light bulbs .....	217
Lighting .....	125	<b>O</b>	
Light switch .....	125	OK button .....	130
List of TFT display symbols and instrument panel warning lamps .....	148	Opening doors from the outside .....	86
Locking and opening the doors from the inside .....	86	Opening the engine compartment lid .....	88
LOCK/UNLOCK .....	158	Opening the fuel filler flap .....	90
Low tyre pressure .....	72	Opening the luggage compartment lid .....	89
Luggage compartment lid .....	89	Operations not allowed .....	121
Lumbar support adjustment .....	194	Other light bulbs .....	217
<b>M</b>		<b>P</b>	
MAIN .....	130	Parking Camera .....	116
Main engine specifications .....	28	Parking lights .....	126
MAIN screen page .....	130	“Parking” mode .....	154
		Parking sensors .....	141



Park Lock .....	179
Park Lock emergency release .....	246
Passenger compartment accessories .....	202
Passenger side fuses and relays .....	224
Passenger-side power window .....	92
Passive safety .....	41
Performance .....	28
Performance start .....	180
PIT SPEED .....	163
Placing suitcases in the luggage compartment .....	205
Pocket-change compartment .....	202
Pocket-change compartments .....	203
Position II - Ignition .....	85
Power steering .....	176
Power steering system oil .....	256
Power windows .....	92
Pregnant women .....	41
Pretensioners .....	48
Push start .....	172

## R

Rear fog lights .....	128
Rear power windows .....	93
Rear seat belts .....	47
Rear-view mirrors .....	197
Refilling .....	36, 166
Replacing a fuse .....	220
Replacing a wheel .....	227

Replacing number plate light bulbs .....	217
Replacing other light bulbs .....	217
Replacing remote control batteries .....	17
Replacing the brake pads and discs .....	238
Replacing the headlight bulbs .....	216
Replacing the supplementary taillight bulbs .....	216
Replacing the taillight bulbs .....	216
Retractable hard top .....	98
Rev Counter .....	153
Roll bar .....	65
Roof closing using the switch .....	120
Roof opening using the switch .....	119
Roof operation on stand-by .....	121
Run Flat tyres .....	35
Running-in .....	165

## S

Safe driving .....	173
Satellite alarm system .....	19
Seat adjustment .....	193
Seat belts - Safety .....	44
Seat belts - Unfastening .....	47
Seat heating system .....	196
Seat position memory .....	195
SETUP .....	130
Side airbags .....	62
“Slow Down” function .....	236
Spare parts .....	7





Special Ferrari child restraint systems .....	78	TPMS .....	71
Special recommendations .....	40	TPMS failure .....	76
“Speed limit” function display .....	138	TPMS - Tyre puncture .....	73
SPORT 2 screen page .....	135	Transmission ratios .....	28
SPORT mode .....	160	TRIP .....	130
SPORT screen page .....	135	TRIP A and TRIP B screen pages .....	136
Start button .....	159	TRIP A/B .....	136
Starting the engine .....	169	Turbo Performance Engineer display .....	156
Starting the vehicle .....	169	Turn indicators .....	127
STATUS .....	130	Twilight sensor .....	127
“Stop and Go” function .....	141	Tyre inflation pressure .....	30
Stopping the vehicle .....	171	“Tyre pressure and temperature” display .....	139
Stop&Start (optional) .....	185	Tyres .....	29
Stop&Start system (optional) .....	185	TYRES screen page .....	136
Suitcases in the luggage compartment .....	205	Tyre temperature and pressure monitoring system (TPMS) .....	71
Sun radiation sensor .....	202		
Sun visors .....	203	<b>U</b>	
Supplementary taillight bulbs .....	216	UP, DOWN, LEFT, RIGHT buttons .....	130
Suspension damping control .....	181	UP-shifting .....	170
Switching off the engine .....	171	UP-shifting due to overrevving .....	170
System start-up .....	167	“UP” shift paddle .....	161
<b>T</b>		Use of the vehicle .....	10
Taillight bulbs .....	216		
Telephone function .....	114		
Tool bag .....	212		
Toolkit .....	212		
Towing .....	229		



## V

VDA .....	130
Vehicle keys .....	14

## W

Warming up the engine .....	169
“Warning: danger of ice” display .....	137
Warning lights on the panel .....	148
Warning of faulty roof opening and closing .....	124
Warranty Booklet .....	7, 252
Wheel alignment check and adjustment .....	260
Wheel rims .....	29
Wheels and tyres - Use .....	258
While travelling .....	173
Wind deflector .....	206
Windscreen and headlight washer fluid .....	258
Windscreen and headlight washer/wipers .....	161
Windscreen washer .....	161

Equipment and options in 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.

In the interests of efficiency and safety, as well as to preserve the value of the vehicle, we do not recommend modifying the equipment using non-approved parts.

#### NOTICE:

Changes or modifications made to this equipment not expressly approved by the manufacturer may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help

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Technical Service Department  
Via Abetone Inferiore, 4  
41053 Maranello  
Modena - Italia

