The aim of this manual is to help improve roadside recovery for Ferrari vehicles: please read it carefully before proceeding with roadside recovery.

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 Authorized Ferrari Dealer for any further information you may require.

In the interests of safety, all roadside recovery services must be performed by qualified personnel.

ROADSIDE RECOVERY

Click on the image of the vehicle to access the specific section

488 GTB

488 SPIDER

Ferrari California T

F12 berlinetta

F12 tdf

488 GTB

488 SPIDER

1. Turning on the vehicle

2. Moving the vehicle

3. Towing the vehicle

1.1 Deactivation of the alarm system

The electronic alarm system performs the following functions:

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

Activation

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

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

The system activates after approximately 25 seconds.

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

If the luggage compartment is then closed, the sensors will be reactivated.

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

Warning

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

Deactivation

To deactivate the alarm system, press button G on the ignition key remote control:

- the turn indicators flash twice;
- the system beeps twice;
- the red LED on the dashboard turns off;
- the dome lights illuminates;
- the central door locking system of the vehicle is deactivated and the doors are unlocked.

Pressing button G twice unlocks the doors and also turns on the low beams for 30 seconds. The alarm system is off and you can now get into the vehicle and start the engine.

Important note

If the key remote control battery is dead, to enter the vehicle, remove the emergency key L from the key remote control and insert the emergency key into one of the two door locks, then turn it to release the lock. The alarm siren will start to sound. Start the vehicle following the emergency procedures. The alarm siren will deactivate.

Deactivating the anti-lift alarm

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

1.2 Entering the vehicle

Opening from the outside

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

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

Locking and opening the doors from the inside

Warning ⚠

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

Both doors can be locked or unlocked by activating/deactivating the "LOCK/UNLOCK" button **B** on the roof panel. To lock the doors, press button **B**; when the door lock is activated, the light on button **B** illuminates. To deactivate the door lock, press button **B** until the light goes out.

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

When the opening handle is operated, both doors are unlocked.

1.3 Fuel inertia switch

The fuel inertia switch is a safety device which is designed to deactivate the fuel pump relays in the event that certain collisions occur.

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

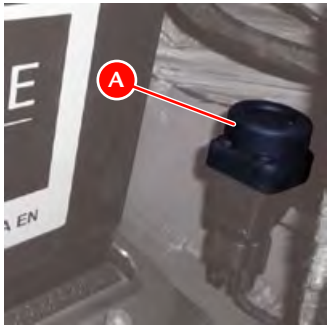
When the fuel inertia switch is activated, the doors are also unlocked (if locked) and the central dome light illuminates.

Important note

The fuel pump relays can be reactivated by pressing the button **A** on the fuel inertia switch located in the battery compartment which can be accessed by opening the passenger side footrest.

Warning

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



1.4 Position of battery

On the 488 GTB/Spider model, the battery is located in the passenger compartment behind the passenger side footrest

Position of battery on the 488 GTB and 488 Spider models

1.5 Battery connection quick release

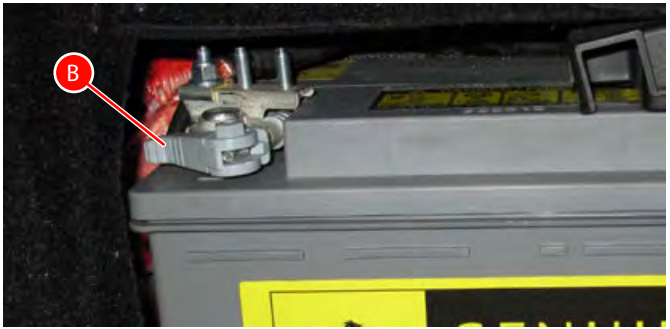
The quick release lever is located on the negative terminal (black) of the battery.

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.

On the 488 GTB /Spider model, the battery is located in the passenger compartment behind the passenger side footrest

Disconnecting the battery

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

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 0.8-1.2. in. (2-3 cm) to avoid damaging the weather strips when opening and closing the doors.

Warning

The windows must remain lowered until the charged battery is reconnected. If the battery is discharged and the windows are fully up, only open the doors when strictly necessary and take great care; do not close them again until the windows can be lowered.

Important note

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

Warning

The battery quick release must only be used if the battery conditioner cannot be connected.

Warning

Do not let the terminal to come into contact with the battery terminal or other metal parts of the vehicle.

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

Before starting the engine, wait at least 60 seconds with the instrument panel activated to allow the electronic system that controls the motor-driven valves and the AC ECU to run a self-acquisition process.

During this period, do not activate any devices.

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

1.6 Access to the luggage compartment

Opening

The luggage compartment lid can also be opened when the key remote control battery is dead.

Push the release button **F** on the inner side of the driver door or press and hold button **G** on the key remote control for more than 2 seconds.

Stand in front of the vehicle, slightly lift the lid and pull the retaining lever **H** to lift it completely.

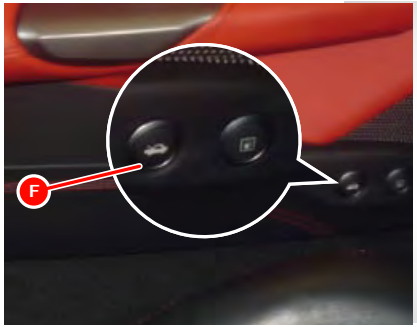
The luggage compartment is illuminated by two light units which activate automatically when the luggage compartment lid is opened.

Closing

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

Emergency Opening

If the luggage compartment lid opening button does not work, there is a cable for manual emergency opening underneath the dashboard to the left of the steering wheel.



1.7 Access to the engine compartment

Opening

To unlock the engine compartment lid, pull the lever D underneath the steering column.

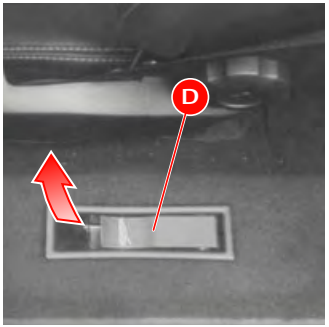
The lid is held open by two shock absorbers.

Closing

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

Warning

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



1.8 Access to and emergency opening of tank cap

Warning ⚠

Always turn off the engine during refueling.

Do not smoke or use open flames when refueling.

The following can be harmful for your health:

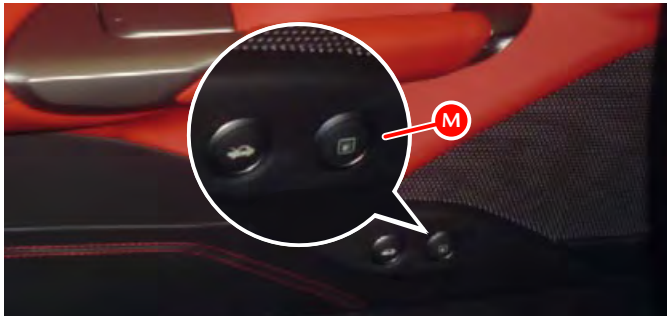
- fuel coming into contact with your skin
- inhaling fuel vapors.

Opening

To open the fuel filler flap, press button **M** on the inner side of the driver door.

Closing

To close the fuel filler flap, push it until it clicks in place.



Emergency Opening

If the opening button does not work, the fuel filler flap can be opened manually by pulling the cable **P** on the right-hand side of the engine compartment.

Capless filler neck

This vehicle has a capless filler neck for fueling. This system allows you to refuel by opening the fuel filler flap and simply placing the nozzle in the filler neck without having to unscrew a cap and screw it on again.

Two flaps placed in series, both with airtight seals, act as a cap. The external flap is locked by a series of "teeth" and the only way to open the external flap correctly is by inserting a fuel pump nozzle.

Warning ⚠

Place the nozzle in the filler neck carefully to avoid damaging the device seal.

Do not try to open the external flap of the filler neck by pushing it with your fingers or prying it open using unsuitable tools (e.g., screwdrivers). This may damage the external flap mechanism, compromising the seal integrity and safety of the system.

Capless fuel filler

Warning ⚠

Do not overfill the fuel tank: this may cause the fuel to leak out.

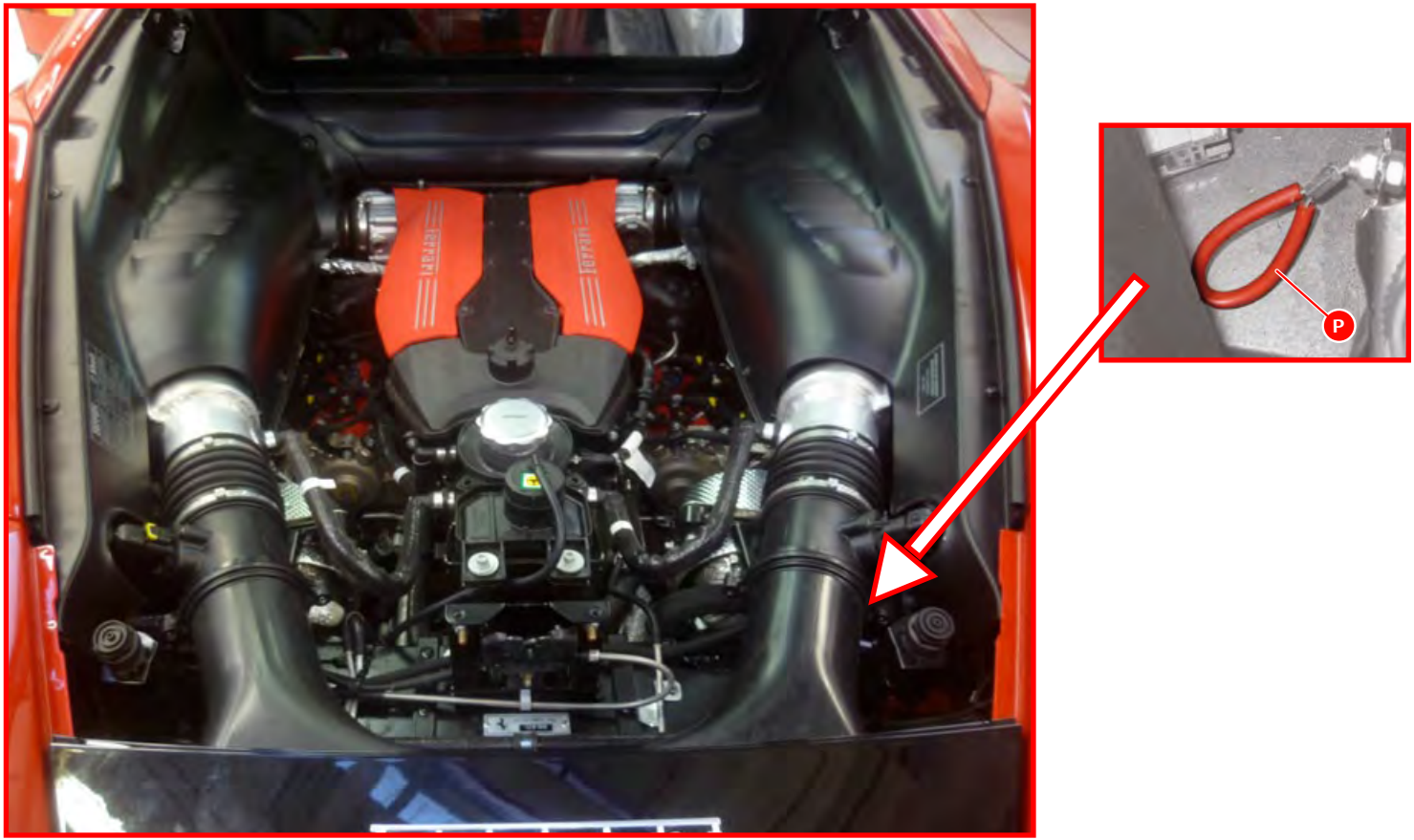
After fueling, wait for about 5 seconds before slowly removing the nozzle from the filler neck: in this way, the last drops of fuel will flow into the tank and will not drip onto the vehicle.

Warning ⚠

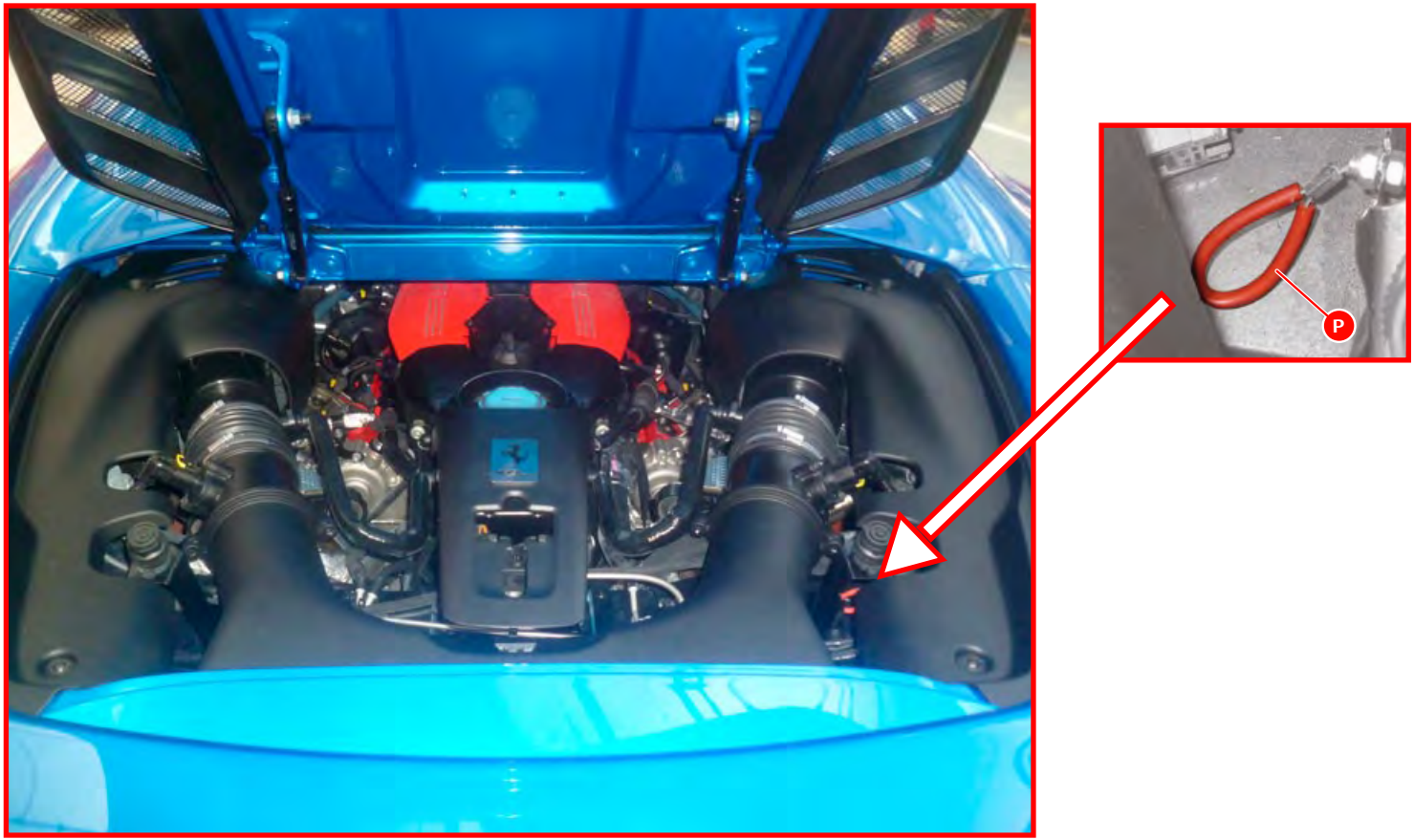
Do not place funnels or portable container nozzles in the filler neck.

If you need to refuel from a portable fuel container, use only the funnel supplied in the tool bag that releases the automatic closing device.

Emergency opening of tank cap on the 488 GTB model



Emergency opening of tank cap on the 488 SPIDER model



1.9 Opening and closing the 488 SPIDER retractable hard top

The retractable hard top system consists of the following main moving parts:

- a front element;
- a rear element;
- a cover;
- a rear wind screen.

Opening and closing is actuated by a hydraulic system, driven by a pump and controlled by a number of sensors that are designed to check every opening and closing phase.

Warning

Avoid opening and closing the hard top repeatedly. Prolonged use of the hydraulic system causes it to overheat and disables it temporarily. The message “Roof operation inhibited-System overheating” appears on the TFT display. After a few minutes, normal operation is resumed.

Warning

The hard top should only be opened or closed when passengers are correctly seated.

Warning

Do not place or leave items in the hard top compartment.

Warning

Do not install accessories (ski racks, luggage racks, etc.) on the hard top.

Warning

Before operating the hard top and while it is in motion, always ensure that all children, persons and objects are a safe distance away from the moving parts. In the event of danger, release the hard top switch: all movement will stop immediately.

Warning

While the hard top is in motion, never place your hands, fingers or objects on the moving parts or on the windshield cross member.

Warning

DO NOT open the retractable hard top when the outside temperature is below 14 °F (-10 °C).

Warning

Before operating the hard top, make sure that the engine compartment lid has been closed correctly. If the engine compartment lid is open, a vehicle symbol appears on the left TFT display that indicates that the lid is open together with a message.

Important note

Ferrari recommends closing the hard top when leaving the vehicle unattended.

The conditions required for opening and closing the retractable hard top are as follows:

- instrument panel activated (KEY-ON);

Important note

We recommend operating the hard top with the engine running. If the vehicle is equipped with a Stop&Start system (optional), the hard top cannot be operated while the engine is being started.

- the engine compartment lid must be closed properly;
- the battery voltage must not be below 11 volts;
- the hydraulic system must not be overheated.

If one or more conditions are not met, the hard top cannot be opened or closed and a message appears on the left TFT display.

Important note

Check that there is sufficient vertical clearance to open the hard top.

Opening the hard top

Important note

Before opening the hard top, ensure that it is dry to prevent water entering the passenger compartment or hard top compartment.

Pull switch **A** on the center console and keep it pulled until the hard top is fully open: the operation in progress is indicated by the message “Roof opening” on the left TFT display.

When the hard top opens, the following operations take place:

- the side windows and rear wind screen are fully lowered;
- the hard top compartment cover opens;
- the hard top parts are positioned in the hard top compartment;
- the hard top compartment cover closes;
- the rear wind screen is raised until it reaches the set height;
- the side windows are raised.

Important note

While the hard top is being opened, you cannot operate the side windows and the rear wind screen.

Once the opening cycle has been completed, the message “Roof open” is displayed on the left TFT display accompanied by an acoustic signal.

To raise the side windows completely, keep switch **A** pulled for approximately 2 more seconds.

Warning

Do not reverse the opening or closing direction when opening or closing the hard top.

Always complete the cycle until the acoustic signal is heard.

Closing the hard top

Press switch **A** on the center console and keep it pressed until the hard top is fully closed: the operation in progress is indicated by the message “Roof closing” on the left TFT display.

When the hard top closes, the following operations take place:

- the hard top compartment cover opens
- the side windows and rear wind screen are fully lowered
- the two parts of the hard top come out of the hard top compartment and the front part fits onto the windshield cross member
- the hard top compartment cover closes
- the rear wind screen is raised
- the side windows are raised.

Important note

While the hard top is being closed, you cannot operate the side windows and the rear wind screen.

Once the closing cycle has been completed, the message “Roof closed” is displayed on the left TFT display accompanied by an acoustic signal.

To raise the side windows completely, keep switch **A** pressed for approximately 2 more seconds.

Warning

Do not reverse the opening or closing direction when opening or closing the hard top.

Always complete the cycle until the acoustic signal is heard.

Interrupting the hard top opening/closing cycle

If button **A** is released before the hard top has been completely opened or closed, it remains in a stand-by position and the message “Complete roof cycle” appears on the left TFT display until the opening or closing cycle is reactivated.

If the hard top is still in standby position after a few minutes, an acoustic signal will prompt you to complete the operation.

Warning

Try not to interrupt the hard top opening/closing cycle. If you have to interrupt the opening/closing cycle, do not leave the hard top in stand-by position for longer than 4 minutes.

Indication of hard top operating system failure

If there is a hard top operating system failure, it is indicated by a special symbol and the message “Roof failure” on the left TFT display.

Warning

If there is a hard top operating system failure, contact your Authorized Ferrari Dealer.

Warning

Do not open or close the hard top when the vehicle is in motion.

Warning

If the maximum speed allowed is exceeded, the ECU stops the hard top from being opened or closed. If this occurs, slow down and press the control button again to continue opening or closing.

Important note

If not used correctly, the ECU stores the fault data.

Warning

Do not operate the hard top when reversing because rear visibility will be reduced.

Do not operate the hard top on bumpy roads.

Do not operate the hard top when there is a strong wind.

1.10 488 Spider retractable hard top emergency manual closing procedure

If there is a fault in the retractable hard top operating system while the vehicle is in spider configuration, an emergency procedure enables the hard top to be manually operated and helps protect the passenger compartment from atmospheric conditions.

The procedure consists of three stages:

1) Release of kinematics and manual opening/closing of top.

2) Activation of hard top tightening mechanism.

3) Additional safety locking using a special tool.

Warning

The retractable hard top manual closing procedure should only be performed in an emergency.

Contact the Authorized Ferrari Dealer. as soon as possible.

Warning

Before starting the procedure, park the vehicle in a sufficiently large area away from passing vehicles.

Warning

Only drive the vehicle again when you have correctly completed the emergency procedure and have manually checked that the hard top is properly closed. While driving, never exceed a maximum speed of 50 mph (80 km/h)

1) Release of kinematics and manual opening/closing of top

Warning

When manually operating the retractable hard top, you must be very careful since there is a risk you may injure your hands in the moving parts. During manual opening/closing, the hard top must never be operated using the control button in the passenger compartment: to avoid using it accidentally, remove the ignition key before starting the procedure.

Important note

While driving, never exceed a maximum speed of 50 mph (80 km/h).

If the hard top was opened using the switch in the passenger compartment just before a malfunction occurred, the hydraulic system remains pressurized and the kinematics are therefore difficult to unlock: if this is the case, wait approx. 7 minutes before performing the emergency procedure.

Important note

Even if the hydraulic circuit is not longer pressurized, the mechanism always offers some resistance to movement: never use excessive force on the moving parts of the system to avoid deforming them.

To manually operate the hard top, do the following:

- Open both doors.

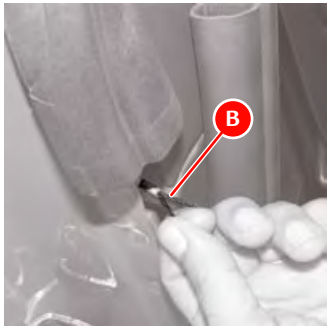
The vehicle has two emergency cables that can be used to unlock the kinematics of the cover and hard top located behind the driver seat and the passenger seat between the bodyshell and the passenger compartment trim panel.

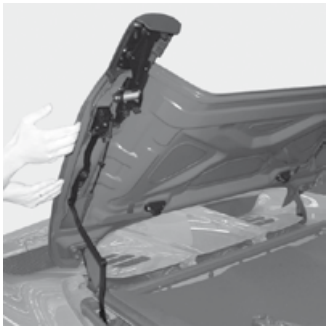
- To access the emergency cable on the driver side, pry out the door seal at the junction point **A**. The position of the cable is marked by red tape as shown in the figure.
- Pull cable **B** to unlock the kinematics on the driver side: the cable extends when they have been unlocked.
- Repeat on the passenger side.

- Manually lift the hard top compartment cover by holding it on one side as shown in the figure.

Important note

To avoid causing damage, check that the engine compartment lid has been closed properly before lifting the hard top compartment cover.

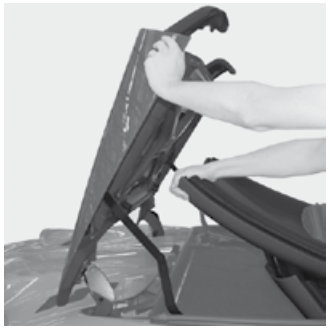


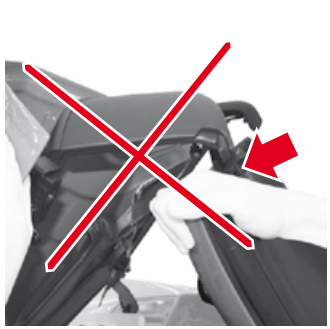


- With the cover fully open, hold the hard top as shown in the figure and lift it.

Important note

While lifting the hard top, the cover must be held fully open to help prevent the hard top touching the cover.





- Rest the hard top on the windshield cross member.

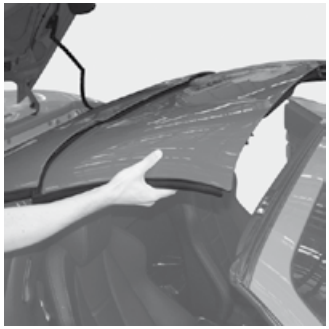
- Put the hard top compartment cover back into a closed position.

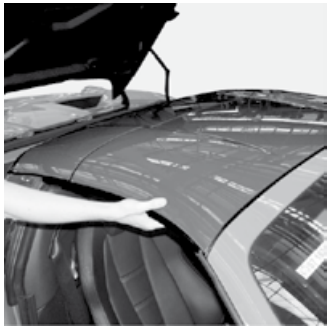
Warning

The hard top closing cycle has not been completed: the hard top is not secured to the windshield cross member and the hard top compartment cover is not locked in a closed position.

Do not continue driving.

To drive the vehicle again, you must lock the hard top and the hard top compartment cover by following the procedure below.





2) Activation of hard top tightening mechanism

After manually operating the retractable hard top, you must activate the hard top and hard top compartment cover tightening mechanism.

Important note

The procedure for activating the hard top and hard top compartment cover tightening mechanism can only be performed once: read the following instructions carefully before starting the procedure.

- By pressing on the far left and right in the areas shown in the figure below, make sure that the hard top and the hard top compartment cover are flush with the bodywork on both sides of the vehicle.
- Get into the vehicle, sit in the driver seat and activate the instrument panel (KEY-ON).

Important note

Before doing the following, try and close the retractable hard top by performing the normal closing procedure used when the system is working correctly (holding down the button **G**).

If successful (hard top closes correctly and there is no error message on the instrument panel), do not operate the hard top and contact the Authorized Ferrari Dealer. as soon as possible.

The hard top and hard top compartment cover tightening mechanism is activated by pressing buttons **F** (rear wind screen operating, to the left of the center console) and **G** (opening/closing hard top, to the right of the center console) in a preset order.

Important note

If you make a mistake during the sequence - for example, you do not hear the acoustic signal at the end of the above stage (a) - and closure of the tightening mechanisms has not been activated, the procedure can be repeated from the beginning after deactivating the instrument panel (KEY-OFF) and then reactivating it.

Important note

Check that the acoustic signal was heard and that the engine compartment lid has been closed properly.

- Remain correctly seated in the driver seat and press the buttons as indicated below:

(a) Press and hold down the rear screen button **F** and then press the hard top button **G** three times in succession. After this, an acoustic signal informs you that the first stage has been successfully completed.

Important note

The procedure for activating the hard top and hard top compartment cover tightening mechanism can only be performed once: read the following instructions carefully before starting the procedure.

(b) Pull and keep the rear screen button **F** pulled and then press the hard top button **G** three times in succession. Once you have pressed the hard top button **G** for the third time, keep it pressed together with the rear screen button **F** for at least 10 seconds to allow the tightening procedure to be completed. During this period of time you will hear noises caused by the latches closing in the front and rear of the hard top: this is to be considered normal.

Important note

During stages (a) and (b) the rear wind screen can move or remain stationary: this depends on the type of fault.

Warning ⚠

Once the procedure has ended, manually check that the hard top and the hard top compartment cover are correctly closed and locked by trying to lift both of them on the far left and right and visually check that the hard top and the hard top compartment cover are flush with the bodywork.

Warning ⚠

If the procedure using buttons is not successful for any reason, or if the hard top and/or the hard top compartment cover remain open or not completely closed, DO NOT drive the vehicle again.

Contact your Authorized Ferrari Dealer. immediately.

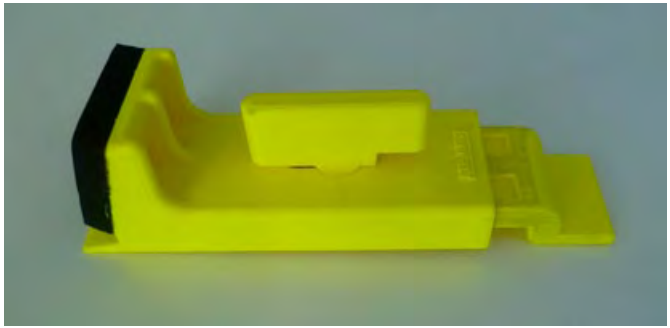
3) Additional safety locking using a special tool

The tool shown in the picture below which is stored in the tool bag has been designed for additional safety locking to support the electronic closing procedure using buttons.

Warning ⚠

This tool must always be used as an additional safety lock even if the hard top and the hard top compartment cover are already locked in a closed position after correct execution of stage (2).

The tool must be correctly installed in order to drive the vehicle again.



Once stage (2) of the emergency procedure has been successfully completed, do the following:

- if the rear wind screen is completely closed, lower it using button **F** on the center console to install the tool correctly;
- place the tool behind the rear wind screen, in the center, as shown in the figure. To make it easier to put it into position, keep the tool at a slight angle and then move it into a vertical position. The bottom edge **M** must be inserted between the strip and the front edge of the cover whereas the top edge **N** goes into the slot into which the rear wind screen is usually inserted when it is completely closed;
- turn the knob **P** counterclockwise until it clicks into place. The top part of the tool can now be extended: the pressure exerted by the tool on the hard top and the hard top compartment cover acts as an additional safety lock to support the tightening mechanism activated with the buttons.

Once the tool has been installed, the rear wind screen can be lifted by moving it towards the top of the tool so that the opening is reduced to a minimum.

Important note

If the retractable hard top is faulty, the rear wind screen may be impossible to move.

Warning

While driving, never exceed a maximum speed of 50 mph (80 km/h). Contact your Authorized Ferrari Dealer. as soon as possible.

1.11 Starting the engine (with battery charged)

Key-Less ignition system

The new Ferrari keys use a Key-Less vehicle ignition system which can turn on the instrument panel and then the engine by simply placing the key inside the vehicle, near the driving area. The dedicated ECU recognizes the vehicle key by the electronic ID code it contains. The ENGINE START/STOP button on the steering wheel controls KEY-ON, KEY-OFF, ENGINE START and ENGINE STOP.

- **KEY-ON**, to activate the vehicle system (instrument panel, air conditioning and heating system, infotainment system, etc.), press and quickly release the ENGINE START/STOP button on the steering wheel, without depressing the brake pedal.
- **KEY-OFF**, to deactivate the vehicle system without starting the engine, press the ENGINE START/STOP button on the steering wheel again.
- **ENGINE START,** to start the engine, keep the brake pedal pressed and press the ENGINE START/STOP button on the steering wheel.

Warning

Hold the brake pedal down while starting the engine.

- **ENGINE STOP,** to turn off the engine when the vehicle is stationary, press the ENGINE START/STOP button on the steering wheel.

If the key battery has a charge level that is only just sufficient, the vehicle informs the driver via a message on the left TFT display of the instrument panel and recommends replacing the battery as soon as possible. If the battery is dead or the key is not recognized, perform the emergency engine stop procedure.

Warning

If the door unlock command is given from a key remote control outside the vehicle when there is a second key remote control inside the vehicle, the engine start function on the second key remote control (inside the vehicle) is disabled. By issuing the door unlock command on any registered key remote control, the engine start function is reset.

Warning

Carefully read the paragraphs in the Owner's Manual on the operation of the Stop&Start (if present) and Key-less systems. NEVER assume that correct operation of the Key-less or Stop&Start systems is based on that of other vehicles.

Warning

NEVER leave the vehicle with the engine running even if only for a short period of time.
Always turn off the engine by correctly performing the ENGINE STOP procedure described above.
With the Stop&Start system (if present) on, the engine is turned off when the vehicle is stationary. **If this is the case, the vehicle is NOT safe.** When the door is opened and/or the seat belt is unfastened without depressing the brake pedal, the engine turns on again. BE CAREFUL.

Warning

The purpose of the Key-less ignition system is to start the engine through remote recognition of the vehicle key code. The Key-less system does **NOT** perform functions that it has not been designed for and does **NOT** compensate for driver distraction.

Warning

Before leaving the vehicle, always make sure that there are no occupants inside especially vulnerable people (children, people with disabilities) or animals.

Warning

Do **NOT** place the vehicle key near electronic devices (e.g., mobile phones, pacemakers) and do not expose it to magnetic fields or place it in metal containers.

Warning

The only safe condition for a vehicle that is stationary without a driver is one in which the engine is turned off (this does **NOT** mean turning off the vehicle using the Stop&Start system (if present).
Always make sure that both the engine and the instrument panel are turned off (see the ENGINE STOP and KEY-OFF paragraphs described above).
Always perform the ENGINE STOP procedure before leaving the vehicle.

Warning

A vehicle left in an **UNSAFE** condition (ENGINE STOP procedure not performed correctly) in closed areas such as a garage can lead to the build-up of exhaust fumes containing carbon monoxide (odorless and colorless gas which, if inhaled, can cause loss of consciousness and subsequently death).

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

- insufficient speed of the starter motor (dead battery)
- ignition device faulty
- electrical contacts faulty
- fuel pump fuses blown.
- no fuel

1.12 Starting the engine (with auxiliary battery)

The battery is located under the passenger side footrest - to access it, open the engine compartment lid.

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.

- Check that the terminals and pins are clean and firmly secured.
- Visually inspect the outer casing for any cracks.

Use an external 12 volt battery of the same or slightly higher power than the one supplied.

Warning

A lead acid battery charger of adequate power (24 volt) may be used by qualified persons only.

Warning

Use leads with suitable characteristics.

- First connect the terminals of one lead to the positive poles (+) of the two batteries and then the terminals of the other lead to the negative poles (-).

Warning

DO NOT REVERSE THE POLES:

DO NOT CONNECT A POSITIVE POLE (+) TO A NEGATIVE POLE (-).

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.

- Start the engine. Refer to “Starting and driving the vehicle

If the engine does not start after several attempts, contact the

Ferrari Service Network.

- Wait a few minutes before driving off.
- When the engine has started, first remove the negative pole lead (-) and then the positive pole one (+).

Warning

Make sure that the positive lead does not come into contact with the vehicle or the negative lead.

Incorrect operations may cause damage to the vehicle electrical system.

Push start

Warning

Push starting is not allowed.

2.1 Electric parking brake (EPB) operating

The parking brake is controlled by a small electric engine.

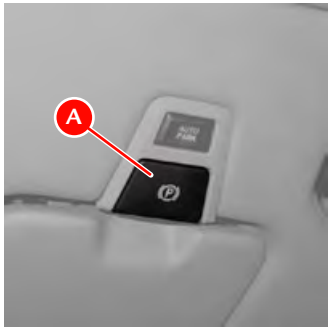
It can be applied and released using the special control A on the dashboard to the left of the steering wheel.

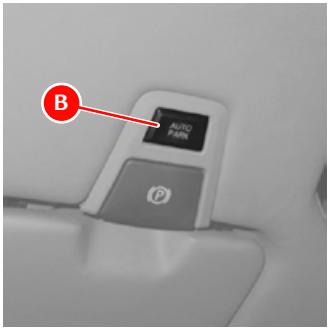
The brake is automatically activated when the engine is turned off and can be temporarily deactivated by pressing the AUTOPARK B button.

Pushing down the brake pedal and pressing button A deactivates it automatically.

The electric parking brake can operate as an emergency brake when the vehicle is in motion.

If this is the case, the electric parking brake communicates with the ESP system to prevent locking. The warning light will turn off when the parking brake is fully released.





Its characteristics are:

- Gradual release of brake shoes/pads when vehicle is started (AVH function): this guarantees an optimised release
- Automatic activation when the engine is turned off (AUTOHOLD function) with the possibility of disabling automatic activation using the AUTOPARK B button, which is part of the EPB control.

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.

2.2 Starting and driving the vehicle

Warming up the engine

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

Driving 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**st 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**st gear to "**R**" (reverse) by pressing **R** on the center console and from reverse to **1**st by moving the **UP** paddle.

Warning

If the **UP** and **DOWN** paddles are not working, the message "Depress brake pedal and press PS to engage gear" will appear on the left TFT display; you can therefore engage the gear by pressing the **PS** button on the center console and the brake pedal.

In these cases, the "Performance Start" function is not available.

If the engaged gear was **R**, the **PS** button must be pressed twice to engage **1**st gear.

Important note

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

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

Use 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.

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 is designed to "automatically" engage a higher gear if the accelerator pedal is pressed and the engine approaches the maximum RPM (overrevving).

Important note

This will not occur when the system is in "RACE", "CT OFF" 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.

Sequential downshifting

During deceleration, with the brake pedal pressed and the ABS system not activated, sequential downshifting can be performed by holding the left-hand "**DOWN**" paddle down.

The sequential gearshifting request is accepted until the second gear is engaged.

This system is only activated when the "Manettino" is set to SPORT, RACE, CT OFF or ESC OFF.

"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**st 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.

Turning off the engine

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

After turning off the engine (**ENGINE STOP**), the gearbox display remains on for a few seconds and indicates which gear is engaged. If the gearbox is in "**N**" a buzzer sounds for 15 seconds and the message "Gearbox not in parking position" is displayed on the left TFT. Before turning off, the letter "**P**" is displayed on the gearbox display to inform the driver that the Park Lock has been activated.

Warning

Never leave the vehicle unattended with the engine running.

If the driver unlatches the driver's seat belt, opens the driver's door, and takes the keyless fob from the vehicle with the engine still running, a warning buzzer will sound 5 times to warn the driver that the engine must be turned off.
If the keyless fob has left the vehicle and the vehicle's engine remains running for longer than 20 minutes, the message "TURN OFF ENGINE" will be displayed on the left TFT and a 30 second countdown starts. When the countdown is completed, the car's anti-theft alarm will sound. Turn the engine off to stop the alarm.

Warning

Never leave the vehicle with the engine running in confined areas such as garages. Engine exhaust gases contain carbon monoxide, wich is a colorless and odorless gas that can cause loss of consciouness, and eventual death.

Warning

Never leave the vehicle with the gearbox in "**N**". Always make sure that the letter "**P**" (Parking) appears on the gearbox display.
If the the Park Lock should fail to function and the gearbox remains in "N", contact your Authorized Ferrari Dealer.

2.3 Plug-in 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 strongly urge you to always use the battery conditioner when the vehicle will be parked for over 70 hours.

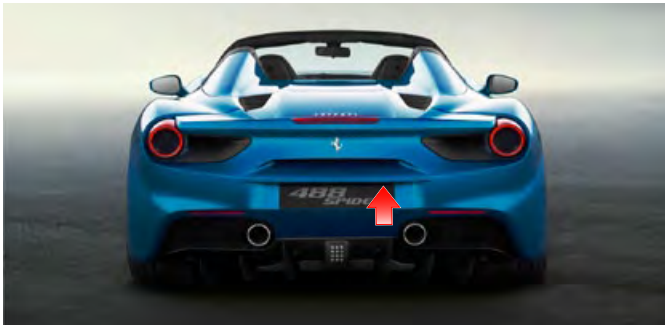
The device is kept in a pocket inside the car cover bag supplied with the vehicle. The socket for the battery conditioner is installed at the back of the vehicle next to the license plate light.

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 vehicle is going to be left unused for periods longer than 70 hours, Ferrari strongly urge you to 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 “BATTERY CHARGER” booklet supplied with the vehicle.

Warning

The engine cannot be started as long as the battery conditioner is connected to the vehicle socket.

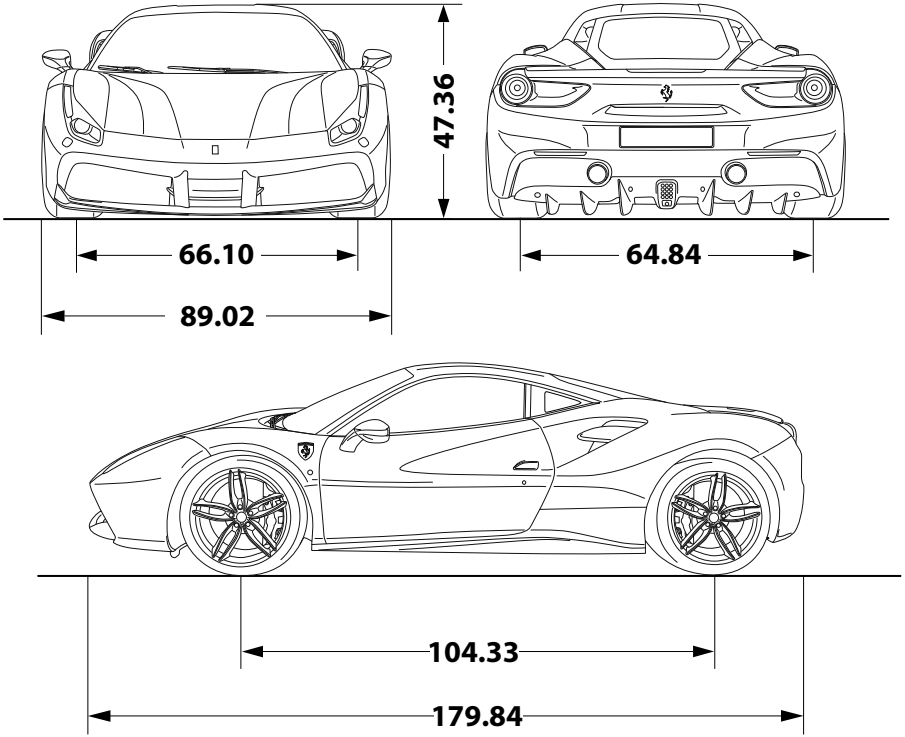
If the car is going to be left unused for periods longer than one week, we recommend that you connect the battery conditioner in order to keep the battery in good working order.

Additional technical information on the use of the device can be found in the manual provided inside the pocket of the car cover bag.

3.0 Dimensions and weights

488 GTB	
Wheelbase	104.33 in. (2650 mm)
Max. length	179.84 in. (4568 mm)
Max. width	89.02 in. (2261 mm)
Max. height	47.36 in. (1203 mm)
Front track	66.10 in. (1679 mm)
Rear track	64.84 in. (1647 mm)
Front overhang	45.00 in. (1143 mm)
Rear overhang	30.51 in. (775 mm)
Curb weight	3252 lbs (1475 kg)*
Dry weight	3020 lbs (1370 kg)*

* With the vehicle fitted with the most popular options available

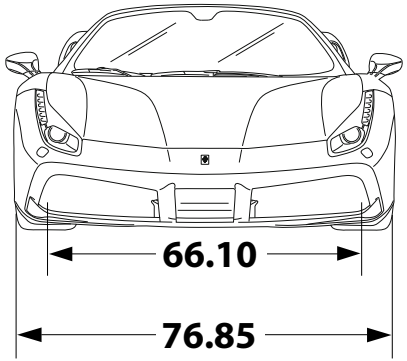


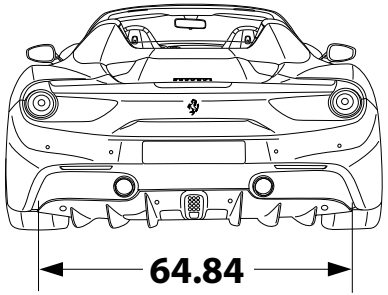
3.0 Dimensions and weights

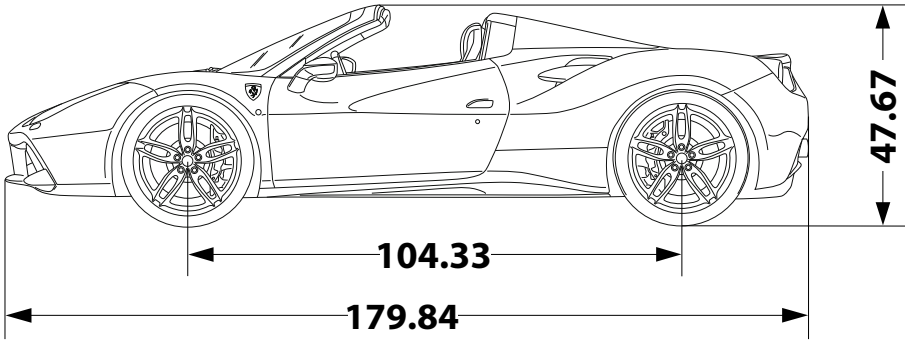
488 Spider

Wheelbase	104.33 in. (2650 mm)
Max. length	179.84 in. (4568 mm)
Max. width	76.85 in. (1952 mm)
Max. height	47.67 in. (1211 mm)
Front track	66.10 in. (1679 mm)
Rear track	64.84 in. (1647 mm)
Front overhang	45.16 in. (1147 mm)
Rear overhang	30.51 in. (776 mm)
Curb weight	3362 lbs (1525 kg)*
Dry weight	3130 lbs (1420 kg)*

* With the vehicle fitted with the most popular options available

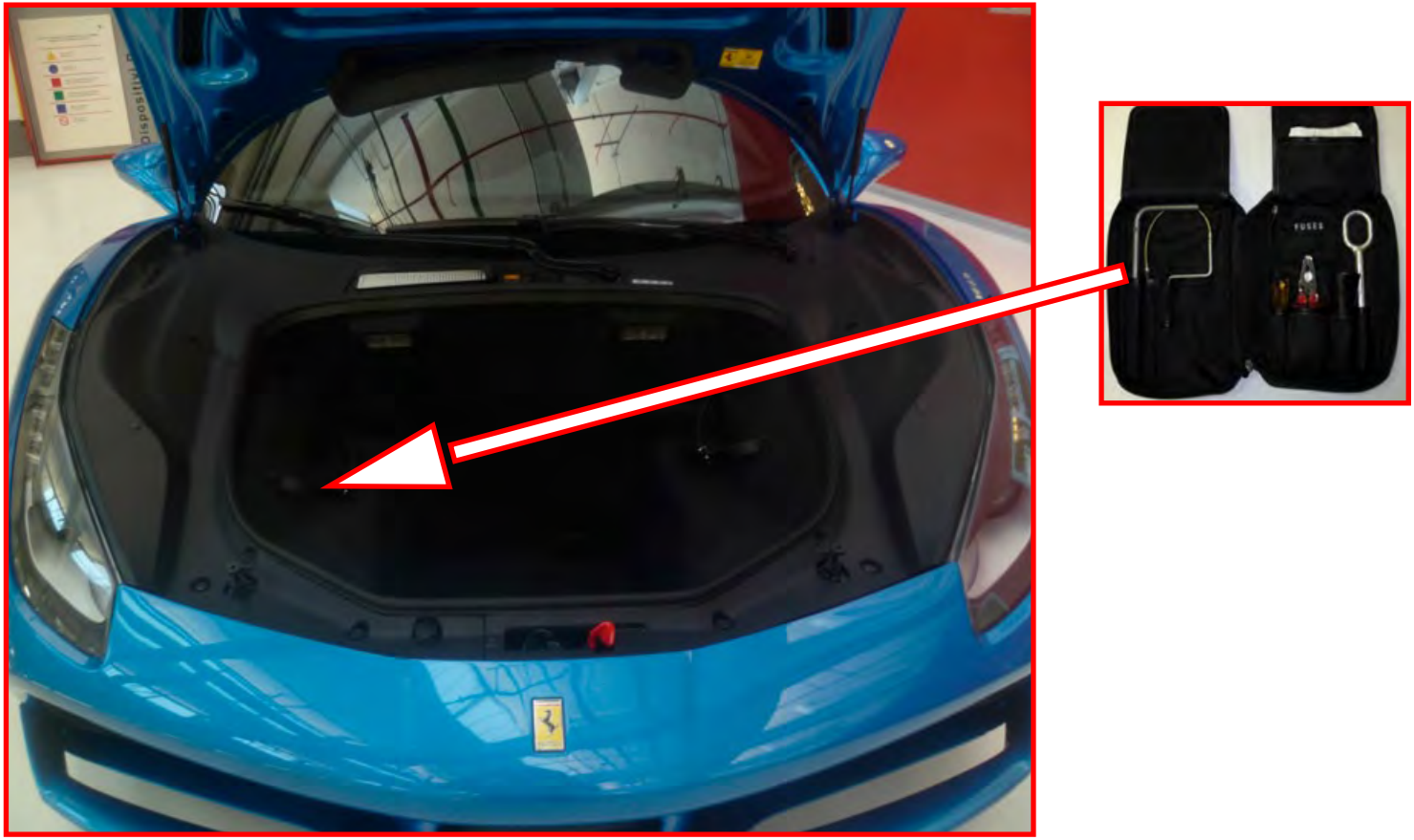






3.1 Position and content of tool bag

Position of tool bag on the 488 GTB /Spider model



Tool bag

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

- set of flat wrenches;
- insulated cutting pliers;
- screwdriver for slotted screws;
- screwdriver for crosshead screws;
- tow hook;
- set of light bulbs;
- set of fuses;
- parking brake manual emergency unlocking wrench;
- “Park Lock” emergency unlocking wrench;
- tyre inflation kit.

3.2 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.

To use the tyre repair and inflation kit correctly, refer to the instruction booklet supplied 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 - 50 mph).

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.

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.

After driving for approximately 10 minutes, stop and recheck the tyre pressure.

Remember to use the handbrake.

Warning

If the pressure has decreased below **1.8 bar** (26.11 psi), 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 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.

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

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.

3.3 Collapsible spare wheel (if present)

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

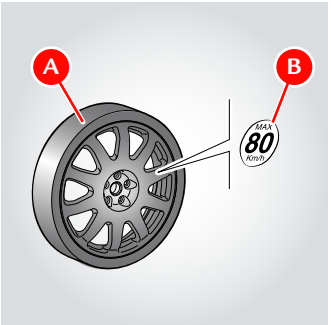
- replace the wheel stud bolts with damaged threads or tapers;
- carefully clean the wheel stud bolts before fitting;
- do not lubricate the contact surfaces between the stud bolt and the wheel rim and between the wheel rim and the brake disk.

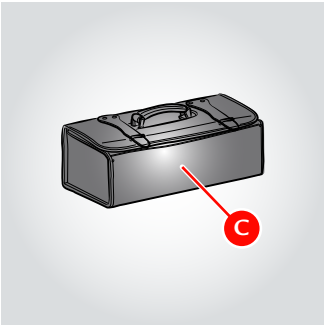
In order not to remove the antilock coating, do not clean the wheel rim cones with solvents or aggressive products.

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 50 mph (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 (50 mph) 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.

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.

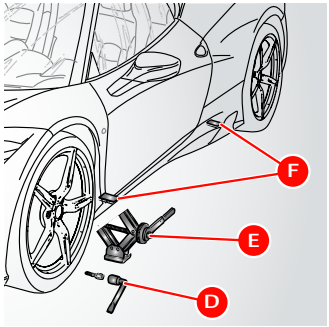
Replacing a wheel

- 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 G 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 G until the wheel is raised off the ground.

Warning

If the jack is not positioned correctly, the vehicle could slip off.

The supplied jack must only be used for changing 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 4.20 bar.
- 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 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.

3.4 Tow hook

When towing the vehicle, use only the attachment point provided for the towing hook **A** inserted in housing **C**.

Proceed as follows:

- Take tow hook **A** out of the tool bag.
- Open cover **B** in the right-hand side of the front bumper.
- Tightly screw tow hook **A** into housing **C**.
- Release the EPB.
- Release the Park Lock.

Warning

If there is an electrical system failure, release the EPB and Park Lock manually.

Warning

While towing the vehicle, you must comply with road regulations.

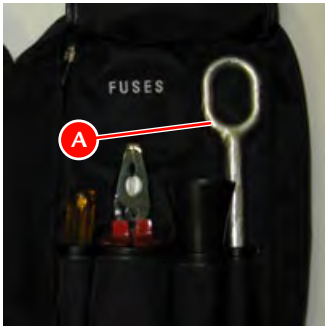
Warning

Do not tow the vehicle using the hook attached to the suspension levers, or wheel rims but only to the tow hook properly fitted in place.

Keep the instrument panel activated by placing the key remote control inside the passenger compartment and quickly pressing and releasing the ENGINE START/STOP button without depressing the brake pedal. This will enable the lights to work. When towing the vehicle do not start the engine.

Important note

Remember that with the engine turned off, the power steering system and the power brake system do not provide power assist and therefore more force is needed when steering and braking.



3.5 Emergency release of electric parking brake (EPB)

Warning

The release procedure must only be carried out by trained workshop technicians and with the vehicle turned off.

If the system cannot be released, contact the nearest Authorized Ferrari Dealer.

Warning

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

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

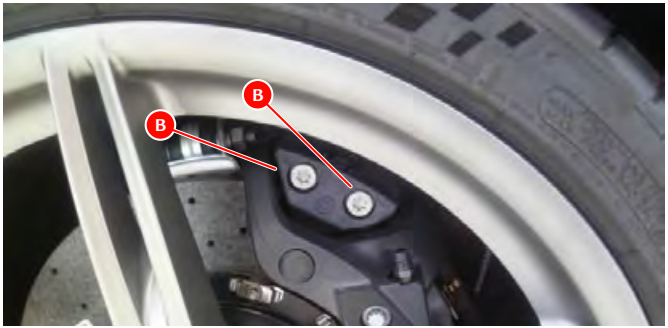
If the electric parking brake cannot be deactivated because the battery is dead or there is a failure in the electrical system controlling it, and the vehicle needs to be moved, the emergency release procedure described below must be performed.

- Before performing this procedure, remove fuse F33 and F34 from the body computer fuse box, situated under the driver side of the dashboard.
- Select the EPB emergency release socket wrench **A** from the tool bag and connect to the extension **D**.

Warning

The EPB emergency release tool **A** may only be used by trained workshop technicians, as indicated on label **C** on the tool bag.

- The EPB system components are situated over the right and left hand rear callipers: insert the EPB release tool **A**, connected to the extension **D**, through the access holes **B**. Insert a standard 1/2" wrench from the opposite end of the extension **D** and turn counterclockwise by two turns to free the brake discs.



Warning

Never loosen the screws completely.

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

Warning

If access to the screws is obstructed by a wheel spoke, the wheel must be removed.

The EPB release procedure is irreversible and compromises the functionality of the parking brake.

Take the vehicle to an Authorized Ferrari Dealer to have the parking brake reset correctly and cancel any errors from the fault memory.

Go to a Authorized Ferrari Dealer.

For safety reasons, the reset procedure is mandatory.

3.6 Emergency release of the Park Lock

Warning

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

If the system cannot be released, contact the nearest Authorized Ferrari Dealer.

Warning

This should be avoided unless absolutely necessary:

- to tow the vehicle;
- if there is a Park Lock failure (displayed on the left TFT display with the message “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.

The Park Lock manual emergency release device is found in the engine compartment, near the gearbox, as shown by the arrow in the figure.

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

- Take wrench **D** and the extension **E** out of the tool bag.

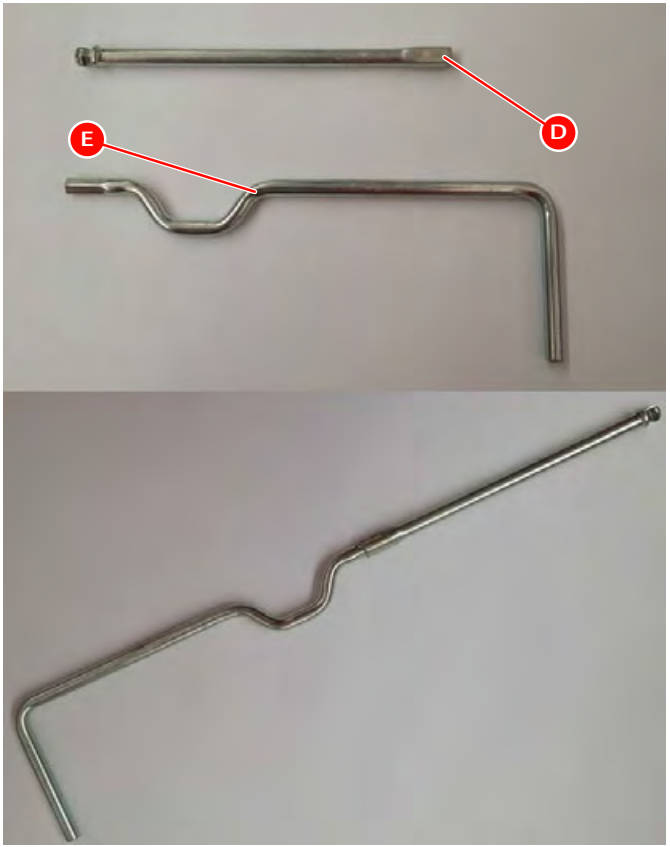
Warning

Wrench **D** may only be used by trained workshop technicians, as indicated on label **C** on the tool bag.

- Open the engine compartment lid.
- Extend wrench **D** using the extension **E** and place it in the manual release device housing.

Important note

Make sure that notch of wrench **D** fits onto the pin in the housing of the device.



- Once the wrench has been placed in the housing, lightly press down on the filter housing to bring to wrench at right angles to the housing.
- To perform the emergency release, turn wrench **D** counterclockwise for a quarter turn.

If the electrical system allows it, check that the letter "N" appears on the gearbox display by activating the instrument panel . The following message will appear on the left 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.

Carwash procedure

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

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

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.

To perform the Carwash procedure, do the following:

- with the engine running, select the first gear;
- select neutral "**N**", then
- turn off the engine, then
- activate the instrument panel (KEY-ON) within 3 seconds of turning off the engine.

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

3.8 Loading the vehicle onto the trailer

• Manually release the Park Lock

If possible, use the Carwash procedure.

• Release the electric parking brake (EPB).

Warning

DO NOT pull the vehicle onto the trailer using the rim spokes as anchors to avoid damaging the wheels.

Warning

DO NOT attach the straps to the suspension or parts of the body.

• Attach the winch cable to the tow hook to lift the vehicle onto the trailer.

Warning

DO NOT attach the winch cable to other parts of the vehicle.

Warning

DO NOT pull the vehicle onto the trailer using only the tow hook but lift it using the special straps.

Warning

Avoid using excessive force on the tow hook when lifting and pulling the vehicle onto the trailer.

• The use of ramps or wooden planks may be necessary if there is limited space in front of or behind the vehicle.

3.9 Securing the vehicle to the trailer

- Secure the vehicle to the trailer using the wheels and the most suitable device for ensuring it is correctly secured as anchors.

Warning ⚠

DO NOT secure the vehicle to the trailer using the suspension arms, wheel spokes or other parts of the body as anchors.

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Glossary

Abbreviation	Meaning
ABS	(Anti-lock Braking System) The ABS prevents wheel locking when braking so that vehicle handling can be maintained.
AC	Air conditioning.
ASR	(Antriebs Schlupf Regelung) Anti-skid regulation during acceleration.
Auto easy exit	Simplified function gear shifting. To exit “Auto easy exit” mode, simply operate one of the two shift paddles.
Autohold	Automatic activation of the electric parking brake (EPB) when the engine is switched off. This function can be disabled
AVH	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.
CST	Stability and Traction Control. It consists of two systems: VDC and F1-Trac.
DCT	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.
EBD	(Electronic Brake-Force Distribution) Electronically-controlled brake-force distribution.
ECU	Electronic Control Unit.
EPB	Electric Parking Brake: the system operates by means of an ECU and an electric motor on the rear brake shoes.
F1-Trac	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.

Glossary

Abbreviation	Meaning
Launch	Strategy for performance standing starts.
Manettino	The driving mode control switch is a quick, intuitive way to make the most of vehicle potential.
Park Lock	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.
RHT	Retractable Hard Top.
TFT display	Multifunction display on the instrument panel that displays information on the control system.
TPMS	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.
Traction power	Force exerted by the vehicle on the road surface through the wheels; it indicates the grip.
VDC	Vehicle Dynamic Control performed through the braking system and engine torque.
Xenon headlights	Headlights on the front of the vehicle that produce a more intense beam by using a voltaic arc rather than an incandescent spiral.

Ferrari California T

1. Switching on the vehicle

2. Moving the vehicle

3. Towing the vehicle

1.1 Deactivation of the alarm system

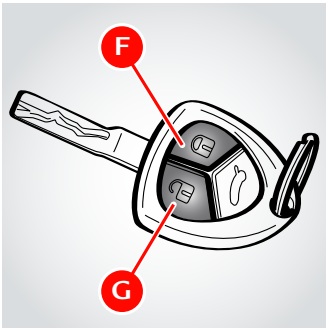
The electronic alarm system performs the following functions:
- remote control for central door locking/unlocking;
- perimeter surveillance, detecting if doors and lids are open;
- motion surveillance, detecting intrusion in the passenger compartment;
- vehicle movement surveillance.

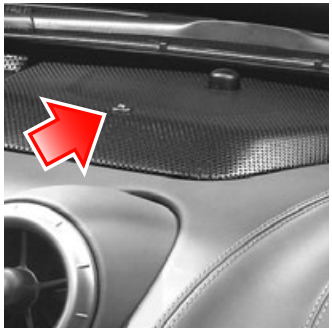
Activation

To turn on the alarm system, press button F on the key:
- the turn indicators flash once;
- the system "beeps";
- the red LED on the dashboard flashes;
- the central door locking system is activated and the doors are locked.

The system activates after approximately 25 seconds.

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





If the luggage compartment is then closed, the sensors will be reactivated.

If the turn indicators and the red LED on the dashboard flash 9 times when you activate the alarm system, it means that one of the doors or the front/rear lid is open or not closed properly and is therefore not protected by the perimeter surveillance. If this is the case, check that the doors and front/rear lids are closed properly and close any door or lid that is open without deactivating the alarm system: the turn indicators will flash once to indicate that the door or the front/rear lid is now closed properly and is protected by the perimeter surveillance.

If the turn indicators and the red LEDs on the dashboard flash 9 times when the alarm system is activated with doors, rear and front lids properly closed, it means that the self-diagnostic feature has detected a malfunction in the system. Contact the Authorized Ferrari Delaer to have the system checked.

Deactivation

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

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

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

The alarm system is off and you can now get into the vehicle and start the engine.

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

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

Deactivating the anti-lift alarm

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

1.2 Entering the vehicle

Opening from the outside

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

When pulling the handle A to open the door, the window moves down approximately 2 centimetres. When the door is closed, it will move back up until it meets the upper limit.

Locking and opening the doors from the inside

Warning ⚠

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

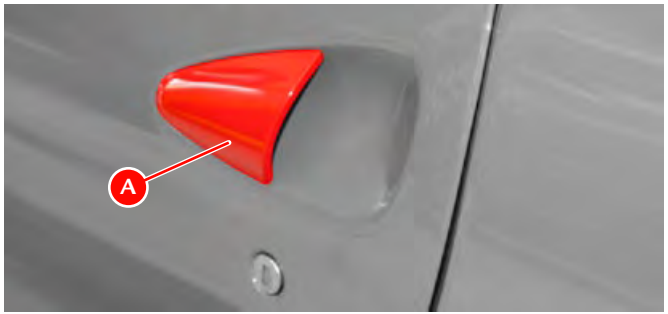
When pulling handle C to open the door, the window will move down to its "target position".

When the door is closed, it will move up until it meets the "upper limit".

If the handle C is pulled without opening the door, the window will lower to the "target position" but, after 2 seconds, if the door is not opened, the window moves up to the "upper limit".

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

Press the "LOCK" B button on the roof to lock both doors and press the "UNLOCK" B button again to unlock them.



1.3 Fuel inertia switch

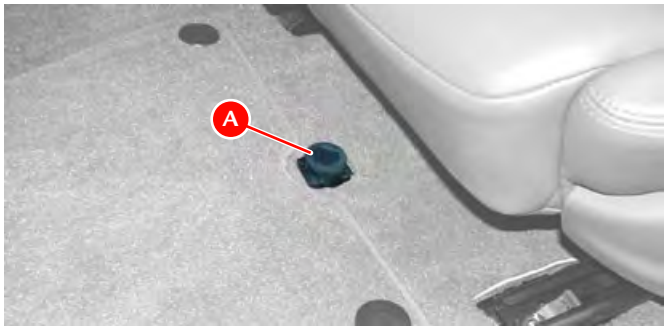
This is a safety switch A located in the passenger compartment, on the floor in front of the driver seat, which deactivates the fuel pump relays if a collision occurs.

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 ⚠

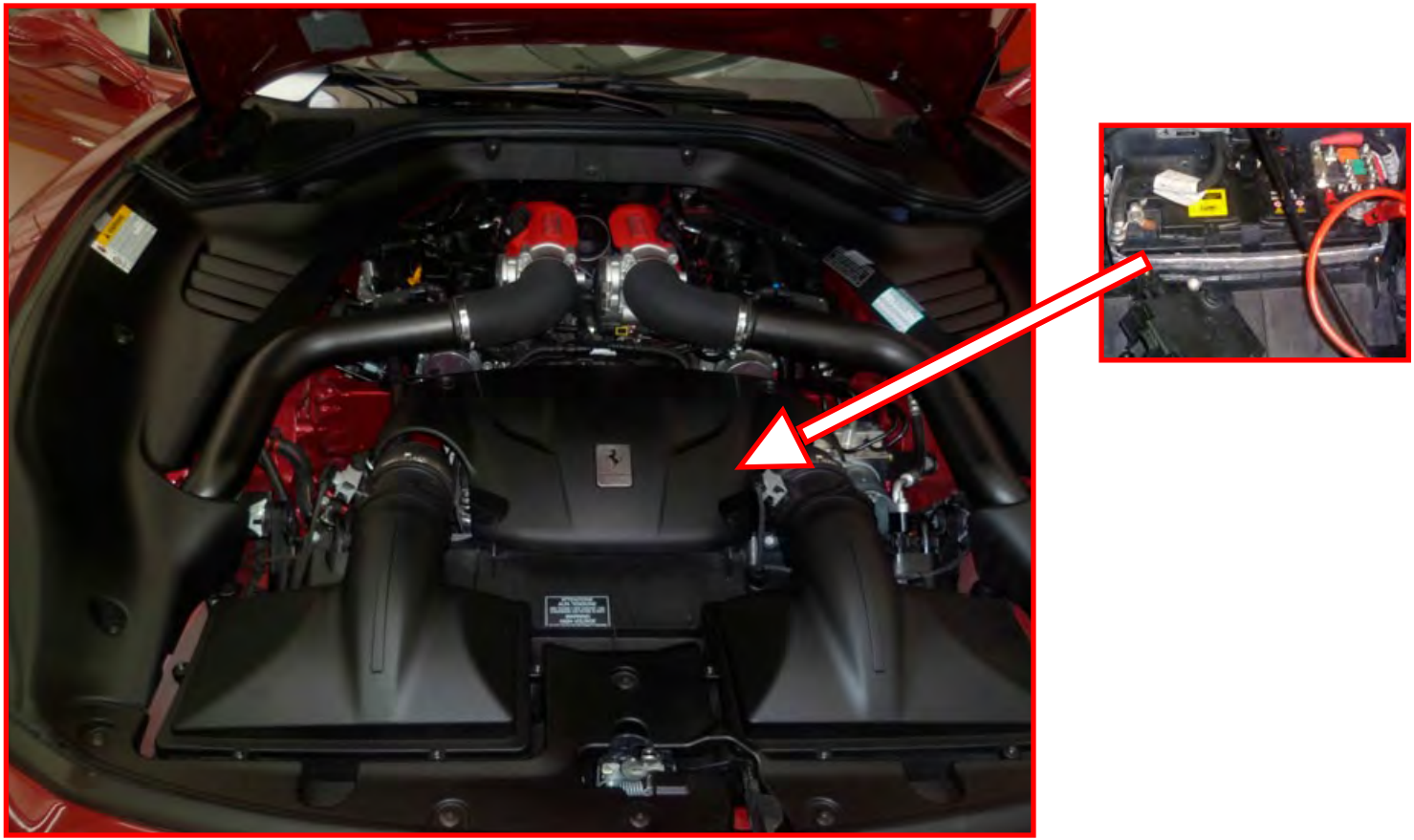
The system can be reactivated by pressing the button on the top of the switch.



1.4 Position of battery

On the California T model, the battery is located in the front of the engine compartment lid.

Position of battery on the CALIFORNIA T model



1.5 Battery connection quick release

The quick release lever is located on the negative terminal (black) of the battery.

Use the locking lever B to loosen the clamp.

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

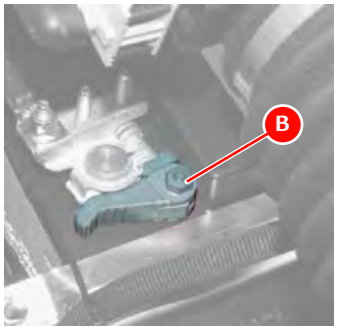
Warning

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.

On the California T model, the battery is located in the front of the engine compartment lid.



Disconnecting the battery

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

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 (0.8-1.2. in.) 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.

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).

1.6 Access to the luggage compartment

Opening

To open the luggage compartment lid, press button H or button L on the remote control and hold it for more than 2 seconds.

You can also use the special knob to the right of the number plate lights.

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

Closing

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

The lock will pull the lid down until it clicks in place.

Warning

Since the lock closes automatically, always keep your hands away from the area between the luggage compartment lid and the bumper.

1.7 Access to the engine compartment

Opening

To unlock the engine compartment lid, pull the lever D underneath the steering column.

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

The lid is held open by two shock absorbers.

Closing

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

Warning

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

Emergency Opening

If the lid opening lever does not work, there is a string for manual emergency opening underneath the dashboard near the foot rest area on the passenger side.

1.8 Access to and emergency opening of tank cap

Warning

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

Do not smoke or use open flames when refuelling.

The following can be harmful for your health:

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

Opening

To open the fuel filler flap, press button M to the left of the driver-side floor.

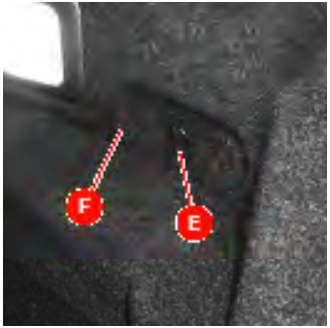
Closing

To close the fuel filler flap, push it until it clicks in place.

Emergency Opening

In the event of a failure of the fuel filler flap button, the flap can be opened manually.

On the California T model, open the luggage compartment lid, turn the lock E and open the flap F. Pull the emergency string G.



Position of the emergency open for tank cap on the CALIFORNIA T model

1.9 Opening and closing the California T retractable hard top

The hard top system is composed of three main moving parts:

- top section
- rear section with rear window
- luggage compartment lid.

Opening and closing is actuated by a hydraulic system, driven by a pump and controlled by a number of sensors that check every opening and closing phase.

Warning

For safety reasons, the retractable hard top can only be opened and closed when the vehicle is stationary.

Warning

The roof must be opened or closed while remaining correctly seated in the driver's seat.

Warning

Before activating the roof and while it is in motion, always check that people and objects are at a safe distance from the moving parts of the roof. In the event of danger, release the roof switch; all movement will stop immediately.

Warning

Before operating the retractable hard top, make sure that the backrest of the child restraint system is set to its minimum height.

The conditions required for opening and closing the retractable hard top are the following:

- the vehicle must be stationary
- the luggage compartment must be closed
- the battery voltage must not be below 11 volts
- the partition between the luggage compartment and the folded roof compartment must be in the correct position, fully pushed back and fastened.

Warning

Do not place items above the partition! Risk of serious damage to opening and closing mechanisms.

- check there is adequate space heightwise and in the rear of the vehicle: the minimum available height A must be 1700 mm (67 in.), the minimum distance B of an obstacle from the rear must be more than 400 mm (16 in.)
- the ignition key must be in position II and the engine running

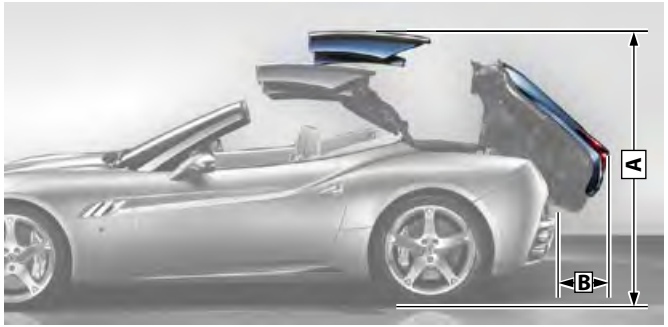
We recommend operating the retractable hard top with the engine running.

If distance B is less than 400 mm, the parking sensors will not allow the roof to open or close.

The parking sensors are only activated when the key is in position II.

- the hydraulic system must not be overheated.

If one or more conditions are not met, the relevant message will appear on the TFT display.



Roof opening using the switch

Warning

Before opening the roof, ensure that the top of the roof and the rear window are dry to prevent water from entering the passenger compartment or luggage compartment.

Pull back switch A on the centre console and hold until the roof is completely open.

The operation in progress will be indicated by a warning on the TFT display.

When the button is pressed, a series of operations required to open or close the retractable hard top begins:

- the side windows are lowered completely
- the rear window is raised
- the luggage compartment lid rotates around a hinge fitted in its rear part

- the rear window and luggage compartment lid parts are positioned in the luggage compartment
- the luggage compartment lid is closed.

Throughout all these phases, the side windows cannot be activated.

At the end of the opening cycle, an acoustic signal will indicate the end of the operations and the relative phase will be indicated with a message on the TFT display.

Warning ⚠

Do not reverse the opening or closing direction when opening or closing the hard top.

Always complete the cycle until the acoustic signal is emitted.

Roof closing using the switch

Push switch A on the centre console forward and hold it until the roof is completely closed.

The operation in progress will be indicated by a warning on the TFT display.

When the button is pressed, a series of operations required to open or close the retractable hard top begins:

- the side windows are lowered completely
- the luggage compartment lid lifts and rotates backwards
- the top section of the roof comes out of the luggage compartment and rests on the edge of the windscreen bay
- the luggage compartment lid completes the closing phase
- the rear window starts moving back and goes into position.

Once the operation has been completed, an acoustic signal indicates that the switch can be released.

Operation on stand-by

If the button is released before the retractable hard top has been completely opened or closed, a message will appear on the TFT display and will remain displayed until the opening or closing cycle is reactivated.

Warning

Do not drive until opening or closing has been fully completed.

A few minutes after the roof is in standby position, an acoustic signal and message on the TFT display will prompt you to complete the operation.

Warning

Avoid leaving the hard top in a standby position.

Operations not allowed

If the conditions for opening or closing the retractable hard top are not met, this will be indicated by an acoustic signal and a message on the TFT display:

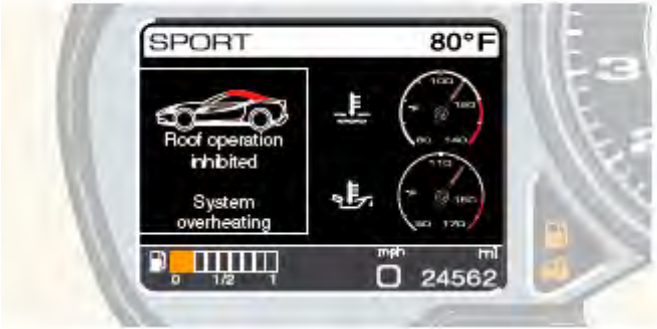
- roof activation during vehicle motion

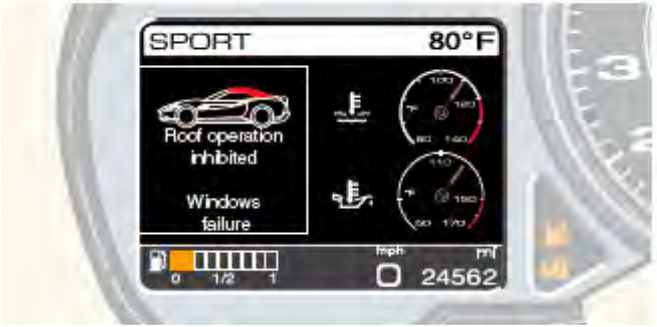
- the speed signal transmitted via the CAN network is not detected by the ECU
- the luggage compartment has not been closed correctly

- the battery voltage is below 11 volts

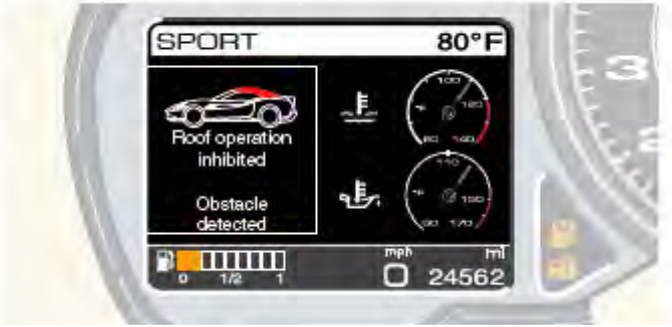
- the partition between the luggage compartment and the folded roof compartment must be in the correct position, fully pushed back and fastened

- the hydraulic system is overheated
- the window position sensor detects that at least one of the windows is not in the correct position





- the parking sensors have detected an object in the rear of the vehicle



- the parking sensors are not communicating with the ECU.

Warning ⚠

DO NOT open the retractable hard top when the outside temperature is below -10 °C (14 °F).

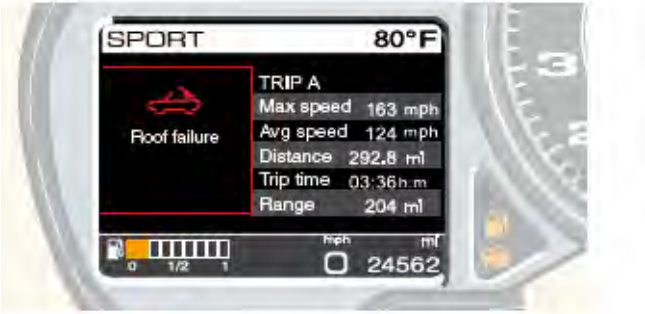
Warning of faulty opening and closing

If there is a problem with opening and closing the roof, the fault will be indicated by an acoustic signal and a message on the TFT display.

After 20 seconds or after pressing the MENU button, the screen page is reduced to an icon and moves to the bottom left of the TFT display.

Warning ⚠

If there is a fault in the retractable hard top system, contact the Authorized Ferrari Delaer.



1.10 Emergency closing of the California T retractable hard top

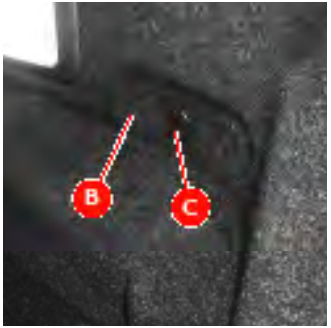
Warning ⚠

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.

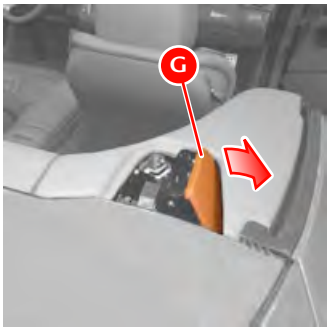
Warning ⚠

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.



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

Warning

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.

Warning

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

- 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.

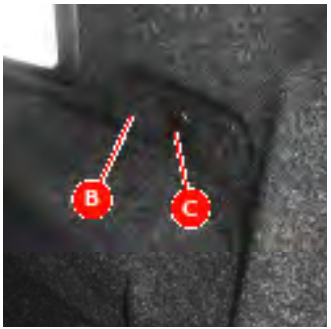
- Move the roof internal covering fabric H until you find the rear roof latch I.

- 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.



1.11 Starting the engine (with battery charged)

The ignition key can be turned to 2 positions:

Position 0 - Stop

Engine off, key removable.

When the key is even only partially extracted, the steering column is locked.

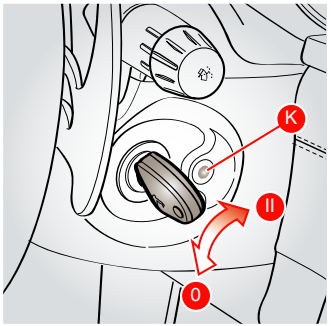
The hazard warning lights and the parking lights can be activated.

To facilitate steering wheel release, turn the steering wheel slightly in both directions while turning the ignition key.

Position II - Ignition

Turning the key to this position, the TFT display will check the signals coming from the vehicle systems.

If no malfunctions are found after starting up, the words "**Check OK**" will be displayed.



Warning

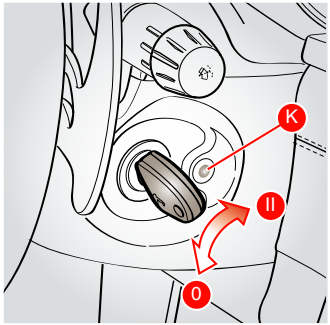
Always remove the key from the ignition when you get out of the vehicle!

Never leave children unattended in the vehicle.

Key lock

If more than 20 seconds elapse after turning the key to position *0*, the key lock device must be released to remove the key:

press button K and remove the key at the same time.



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.

Refer to “Starting and driving the vehicle.

1.12 Starting the engine (with auxiliary battery)

The battery is located in the front of the engine compartment - to access it, open the engine compartment lid.

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.

- Check that the terminals and pins are clean and firmly secured.
- Visually inspect the outer casing for any cracks.

Use an external 12 volt battery of the same or slightly higher power than the one supplied.

Warning

A lead acid battery charger of adequate power (24 volt) may be used by qualified persons only.

Warning

Use leads with suitable characteristics.

- First connect the terminals of one lead to the positive poles (+) of the two batteries and then the terminals of the other lead to the negative poles (-).

Warning

DO NOT REVERSE THE POLES:

DO NOT CONNECT A POSITIVE POLE (+) TO A NEGATIVE POLE (-).

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.

- Start the engine. Refer to "Starting and driving the vehicle.

If the engine does not start after several attempts, contact the Authorized Ferrari Delaer.

- Wait a few minutes before driving off.
- When the engine has started, first remove the negative pole lead (-) and then the positive pole one (+).

Warning

Make sure that the positive lead does not come into contact with the vehicle or the negative lead.

Incorrect operations may cause damage to the vehicle electrical system.

Push start

Warning

Push starting is not allowed.

2.1 Electric parking brake (EPB)

The parking brake is actuated by an electric motor.

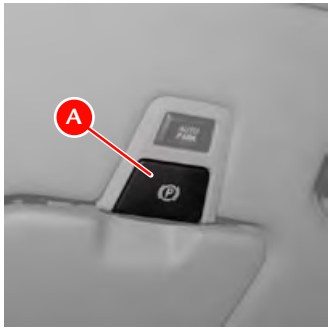
It can be applied and released using the special control A on the dashboard to the left of the steering wheel.

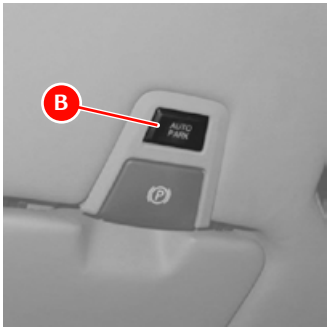
The brake is automatically activated when the engine is switched off and can be temporarily deactivated by pressing the AUTOPARK B button.

Pushing down the brake pedal and pressing button A deactivates it automatically.

The electric parking brake can operate as an emergency brake when the vehicle is in motion.

If this is the case, the electric parking brake communicates with the ESP system to prevent locking. The warning light will turn off when the parking brake is fully released.





Its characteristics are:

- Gradual release of brake shoes/pads when vehicle is started (AVH function): this guarantees an optimised release
- Automatic activation when the engine is switched off (AUTOHOLD function) with the possibility of disabling automatic activation using the AUTOPARK B button, which is part of the EPB control.

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 Authorized Ferrari Delaer.

2.2 Starting and driving the vehicle

Starting and driving the vehicle

System start-up

When the ignition key is turned to position II the DOT MATRIX gearbox display is activated and the failure warning light A comes on. The warning light will go out if no problems are detected within a few seconds.

The letter P (Parking) or N (Neutral) will remain highlighted on the display.

Warning ⚠

BEFORE YOU DRIVE

If the warning light A continues flashing without going off, switch off the system and wait for the gear display to go off before restarting.

If the failure persists, contact the Authorized Ferrari Delaer.

If the warning light A is faulty, a warning light will appear on the TFT display and this condition will be indicated by an acoustic alarm when the ignition key is turned to position II.

Warning ⚠

Contact the Authorized Ferrari Delaer.

Operation with the engine off

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

To exit the "Auto easy exit" mode simply operate the UP or DOWN paddles (while the vehicle is moving) or press the AUTO button on the centre console.
Once the "System start-up" stage has been completed, the engaged gear will appear on the DOT MATRIX display:
N (Neutral);
P (Parking);
R (Reverse);
1 (1st gear);
2 (2nd gear), etc.

Immediately release the UP and DOWN paddles and the button R after the display shows that the gear has been engaged; a prolonged manoeuvre would cause the failure warning light to turn on and trigger the buzzer.

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 "Check OK" symbol to appear on the TFT display.
- If the "Check OK" symbol does not appear, turn the key back to position 0, wait a few seconds and repeat the procedure.
- Press the ENGINE START button and release it as soon as the engine starts.
- After the engine has started, the "Check OK" symbol will be displayed.

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 does not start, turn the key back to position 0 and wait for the gear display to go off before repeating the whole operation.

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 held down, pull the right-hand "UP" paddle towards the steering wheel to engage the 1st 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 1st or 2nd gear to "R" (reverse) by pressing R and from reverse to 1st by moving the "UP" paddle.

Warning ⚠

If the "UP" and "DOWN" paddles are not working, the message "Press brake pedal and LAUNCH to engage gear" will appear on the TFT display. You can therefore engage the gear by pressing the Launch button and the brake pedal.

In these cases, the Launch control function is not available.

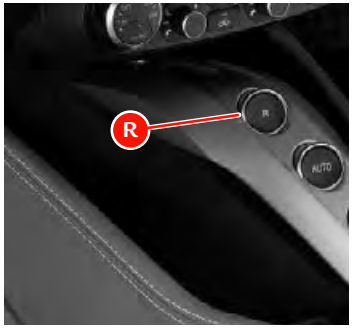
If the engaged gear was R, the Launch button must be pressed twice to engage the 1st gear.

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

If the system automatically selects 2nd gear when attempting to shift from R to 1st gear, this indicates that 1st gear has jammed. Therefore, this is not a malfunction, as it falls within the system operating logic. For the same reason, when shifting from 1st gear to "R", the system will automatically engage "N" if the gear has jammed.

During prolonged stops with the engine running, it is advisable to keep the gearshift in "N".

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



UP-shifting

Use 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).

This condition does not occur with the system in "SPORT" 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 down shifts "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

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.

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 display will remain on for a few more seconds to display the engaged gear. If the gearbox is in "N" a buzzer will sound.

Warning

Never leave the vehicle with the gearbox in "N". Make sure that the letter "P" appears on the display.

Warning

Never leave the vehicle with the engine running.

Warning

If the vehicle is not in Parking mode ("P" must be displayed on the DOT MATRIX display), the key cannot be removed.

For information on the Parking mode, see "Electric parking brake (EPB) operating" on.

"Automatic gearbox" mode

This mode is activated (or deactivated) using the AUTO button; the word "AUTO" will light up on the gear display and the system will automatically adjust UP-SHIFTING and DOWN-SHIFTING according to the vehicle speed, engine speed and torque/power requested by the driver.

Gearshifting is possible using the "UP" and "DOWN" paddles but the system remains in "Automatic" mode.

To exit the "Automatic" mode, you must press the AUTO button until the "Automatic" warning light goes out.

When the vehicle stops, the request for "N", 1st or "R" does not change the mode from "Automatic" to "Normal".

"Auto easy exit" mode

The vehicle is always started in "Auto easy exit" mode, unless it was turned off with the gearbox in "Automatic" mode.

Activation is indicated by the word AUTO ▼ on the gear display on the instrument panel.

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

In "Auto easy exit" mode, if you operate the UP and DOWN paddles (while the vehicle is moving) the system will exit the "Automatic" mode and switch to "Manual" mode.

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.

2.3 Plug-in battery conditioner

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

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 strongly urge you to always use the battery conditioner when the vehicle will be parked 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 license 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.

After connecting the battery conditioner to the socket in the vehicle, run the connection cable under the passenger door on the front side.

Do not run the connection cable out of the vehicle in positions other than those indicated to prevent damaging the seals and/or the cable.

Warning

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

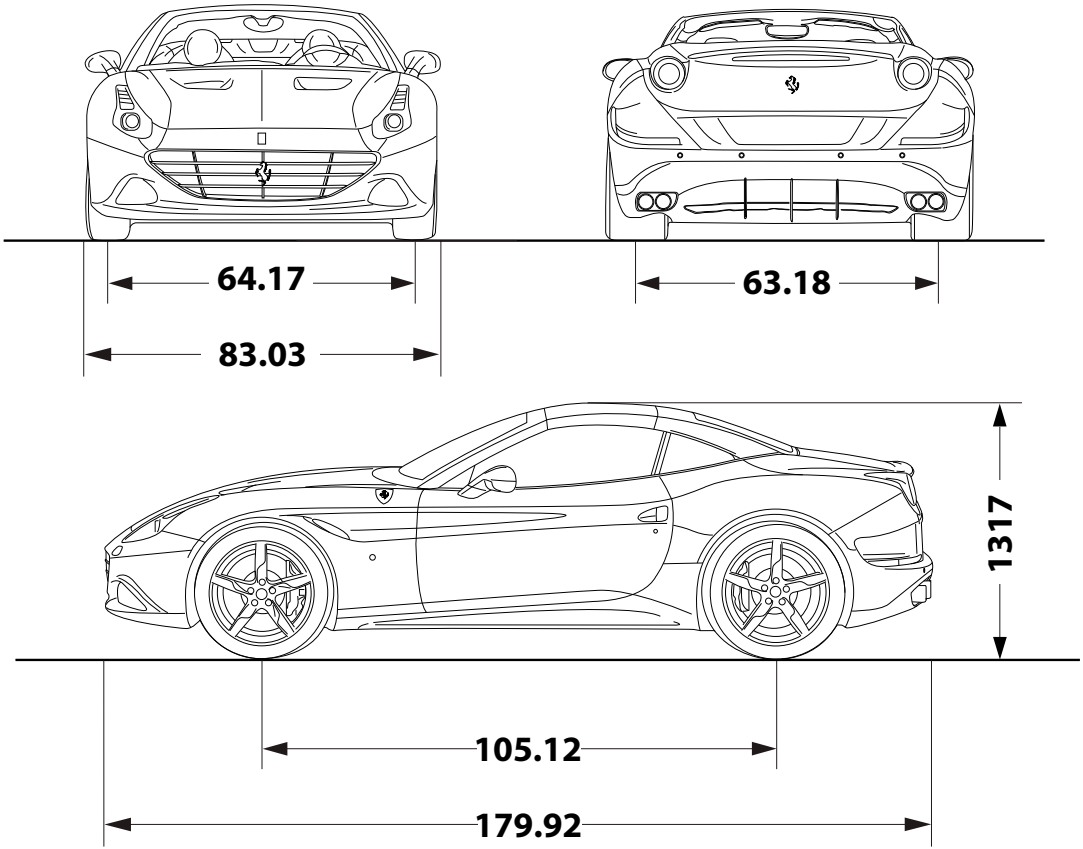
Your vehicle's battery is constantly kept at a state of charge when you are driving the vehicle through the alternator circuit and helps ensure a properly charged battery which prevents vehicle starting problems and other electrical system problems. The alternator circuit only supplies voltage back to the battery when the vehicle is being driven. The amount of voltage that will be supplied to the battery to maintain a constant state of charge depends on the amount of electrical load placed on the battery by electrical systems that are being used such as the air conditioning system, headlamps, radio, windshield wipers and other electrical systems, and in what traffic condition you are driving the vehicle in. Typical highway driving will allow the alternator to provide more voltage back to the battery, while stop and go or heavy traffic conditions, the alternator will provide less voltage back to the battery. The same applies to how much electrical load is placed on the battery to supply the various electrical systems while driving your vehicle. In addition, your vehicle is equipped with advanced electronic systems such as the anti-theft system and various electronic control modules, which consume electrical energy even when the ignition switch is in the off position, and the vehicle is not being operated. Therefore, maintaining a properly charged battery is critical to the performance of the vehicle's starting and other vehicle electronic systems.

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.

3.0 Dimensions and weights

Wheelbase	105.12 in. (2670 mm)
Max. length	179.6 in. (4570 mm)
Max. width	75.15 in. (2109 mm)
Max. height	52.04 in. (1322 mm)
Front track	64.17 in. (1630 mm)
Rear track	63.18 in. (1605 mm)
Front overhang	37.56 in. (954 mm)
Rear overhang	37.24 in. (946 mm)
Curb weight	3900 lb. (1770 kg)*

* With the vehicle fitted with the most popular options available



3.1 Position and content of tool bag

Tool bag

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

- set of flat wrenches;
- insulated cutting pliers;
- screwdriver for slotted screws;
- screwdriver for crosshead screws;
- tow hook;
- set of light bulbs;
- set of fuses;
- parking brake manual emergency unlocking wrench;
- "Park Lock" emergency unlocking wrench;
- tire inflation kit.

California model

3.2 Emergency tire repair and inflation kit

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

To use the tire repair and inflation kit correctly, refer to the instruction booklet supplied with the kit.

Warning

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

Warning

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

Warning

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

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 tire.

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 - 50 mph).

Warning

Apply the sticker where it can easily be seen by the driver to indicate that the tire has been treated with the tire repair kit.

Drive carefully especially on bends.

Avoid sudden accelerations or braking.

Warning

The kit is to be used to temporarily repair only one tire punctured by small objects: the kit may not be useful in the case of large punctures or tearing.

After driving for approximately 10 minutes, stop and recheck the tire pressure.

Remember to use the handbrake.

Warning

If the pressure has decreased below **1.8 bar** (26.11 psi), do not continue driving: the kit cannot guarantee the correct hold because the tire is too damaged. Contact the Authorized Ferrari Delaer.

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

Drive very carefully to the nearest Authorized Ferrari Delaer.

Warning

The repaired tire must be replaced as soon as possible and the workshop personnel must be informed that the tire was treated with tire repair fluid.

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

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 tire pressure monitoring system.

If this occurs, the sensor must be replaced. Contact the Authorized Ferrari Delaer.

Warning

Wear the protective gloves provided with the tire repair kit.

3.3 Collapsible spare wheel (if present)

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

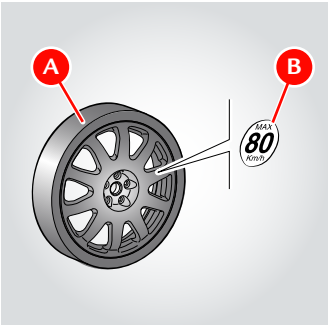
- replace the wheel stud bolts with damaged threads or tapers;
- carefully clean the wheel stud bolts before fitting;
- do not lubricate the contact surfaces between the stud bolt and the wheel rim and between the wheel rim and the brake disk.

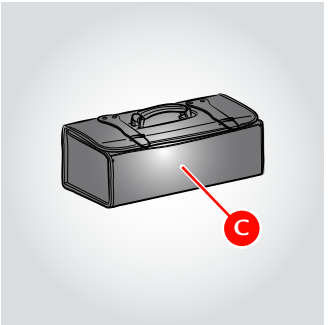
In order not to remove the antilock coating, do not clean the wheel rim cones with solvents or aggressive products.

Collapsible spare wheel

On request, the vehicle comes with a kit containing:

- collapsible spare wheel A with space-saving tire; the label B indicates the maximum speed allowed of 50 mph (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 (50 mph) 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.

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.

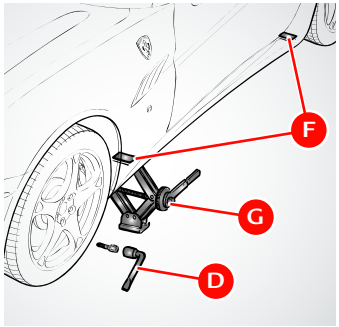
Replacing a wheel

- 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 G 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 G until the wheel is raised off the ground.

Warning

If the jack is not positioned correctly, the vehicle could slip off.

The supplied jack must only be used for changing 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 “tire inflation” mode. Refer to the instruction manual provided with the kit.

- Inflate to the indicated pressure 4.20 bar.
- 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 spare wheel does not have a tire pressure monitoring sensor (see label on spare wheel tool bag). After fitting, it is not checked by the system but complies with international regulations ECE R64/01.

After fitting, we recommend that you go to the nearest Authorized Ferrari Delaer.

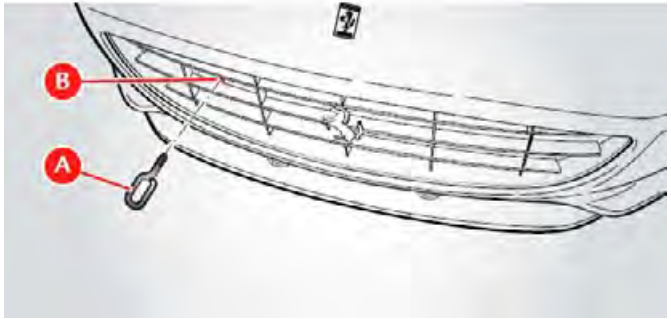
3.4 Tow hook

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.



Warning

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

Warning

Do not tow the vehicle by attaching it to the 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.

Remember that when the engine is turned off, the power steering system and the power brake system functions do not provide power assist and therefore more force is needed when steering and braking.

3.5 Emergency release of electric parking brake (EPB)

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 display.

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

- Open the luggage compartment lid.
- Remove the tool kit cover.
- Take wrench A out of the tool kit to release the electric parking brake.
- Place the release wrench in the hole (in the left part of the groove D) and turn it clockwise.

This movement loosens the parking brake cables.

To release the brake completely, the wrench needs to be turned 50 times, whereas 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 warning light and the following message "Parking Brake system revision. Go to dealer" is displayed on the TFT display.

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

Warning

Go to an Authorized Ferrari Dealer.

Calibration is necessary for safety reasons.

3.6 Emergency release of the Park Lock (DCT gearbox version)

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.

The Park Lock is a locking device built into the gearbox. It 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 luggage compartment lid has been closed correctly.

After releasing the Park Lock, the following message may appear on the TFT display “Only manual unlock gearbox allowed: See handbook”.

Procedure for releasing the Park Lock device from the luggage compartment for the California T *model*

Warning

Only perform this Park Lock release procedure if the vehicle is on level ground.

Warning

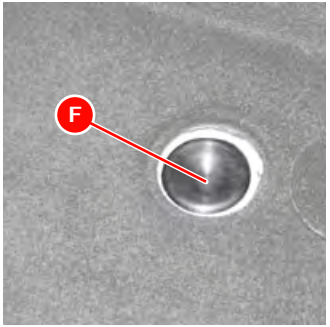
When the Park Lock device is deactivated manually, the vehicle may move.

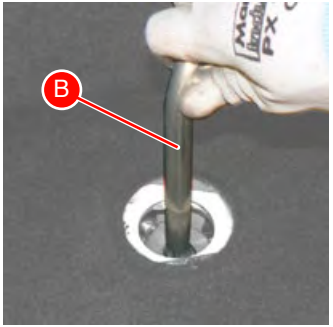
The vehicle is only kept stationary by the electric parking brake, if applied.

The Park Lock manual release device is found in the luggage compartment.

- Take the wrench B out of the tool kit.
- Open the luggage compartment.
- Remove the rubber cap F that protects the device.
- Insert the wrench B in the device and turn it clockwise.

If the electrical system allows it, check that the letter "N" appears on the Dot Matrix display by turning the ignition key to position "II". The following message "Gearbox not in Parking position" appears on the TFT display.





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 will appear on the left 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.

Warning ⚠

Wrench B may only be used by specialised workshop technicians, as indicated on the label on the tool bag.

Resetting the Park Lock

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

If the electrical system allows it, check that the letter "P" appears on the Dot Matrix display by turning the ignition key to position "II".

Warning

In the event of emergency release due to a Park Lock failure, go to the nearest Authorized Ferrari Dealer to resolve the problem.

Carwash procedure

The Park Lock emergency device can be electronically deactivated on a temporary basis 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 safety device is electronically disabled (Carwash procedure), the vehicle may move unexpectedly!

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

- With the engine running, select the first gear
- Select neutral "N"
- Switch off the engine
- Turn the key to key-on 3 seconds after switching off
- The message "Carwash mode activation" will appear on the TFT display.

3.7 Loading the vehicle onto the trailer

• Manually release the Park Lock.

If possible, use the Carwash procedure.

• Release the electric parking brake (EPB).

Warning

DO NOT pull the vehicle onto the trailer using the rim spokes as anchors to avoid damaging the wheels.

Warning

DO NOT attach the straps to the suspension or parts of the body.

• Attach the winch cable to the tow hook to lift the vehicle onto the trailer.

Warning

DO NOT attach the winch cable to other parts of the vehicle.

Warning

DO NOT pull the vehicle onto the trailer using only the tow hook but lift it using the special straps.

Warning

Avoid using excessive force on the tow hook when lifting and pulling the vehicle onto the trailer.

- The use of ramps or wooden planks may be necessary if there is limited space in front of or behind the vehicle.

3.8 Securing the vehicle to the trailer

- Secure the vehicle to the trailer using the wheels and the most suitable device for ensuring it is correctly secured as anchors.

Warning

DO NOT secure the vehicle to the trailer using the suspension arms, wheel spokes or other parts of the body as anchors.

- Once the vehicle has been secured to the trailer, remove the key.

Glossary

Abbreviation	Meaning
ABS	(Anti-lock Braking System) The ABS prevents wheel locking when braking so that vehicle handling can be maintained.
AC	Air conditioning.
ASR	(Antriebs Schlupf Regelung) Anti-skid regulation during acceleration.
Auto easy exit	Simplified function gear shifting. To exit “Auto easy exit” mode, simply operate one of the two shift paddles.
Autohold	Automatic activation of the electric parking brake (EPB) when the engine is switched off. This function can be disabled
AVH	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.
CST	Stability and Traction Control. It consists of two systems: VDC and F1-Trac
DCT	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.
EBD	(Electronic Brake-Force Distribution) Electronically-controlled brake-force distribution.
ECU	Electronic Control Unit.
EPB	Electric Parking Brake: the system operates by means of an ECU and an electric motor on the rear brake shoes.
F1-Trac	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.

Glossary

Abbreviation	Meaning
Launch	Strategy for performance standing starts.
Manettino	The driving mode control switch is a quick, intuitive way to make the most of vehicle potential.
Park Lock	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.
RHT	Retractable Hard Top.
TFT display	Multifunction display on the instrument panel that displays information on the control system.
TPMS	Tire Pressure Monitoring System Using special sensors fitted inside the wheel rims next to the air valve, the data measured is sent to an ECU. The data and messages are displayed on the TFT display.
Traction power	Force exerted by the vehicle on the road surface through the wheels; it indicates the grip.
VDC	Vehicle Dynamic Control performed through the braking system and engine torque.
Xenon headlights	Headlights on the front of the vehicle that produce a more intense beam by using a voltaic arc rather than an incandescent spiral.

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.

F12 berlinetta

F12 tdf

1. Switching on the vehicle

2. Moving the vehicle

3. Towing the vehicle

HOME

1.1 Deactivation of the alarm system

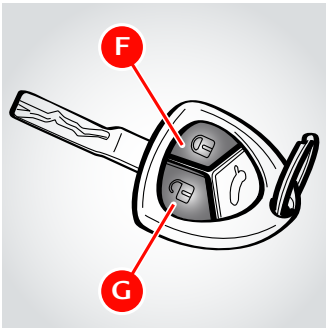
The electronic alarm system performs the following functions:
- remote control for central door locking/unlocking;
- perimeter surveillance, detecting if doors and lids are open;
- motion surveillance, detecting intrusion in the passenger compartment;
- vehicle movement surveillance.

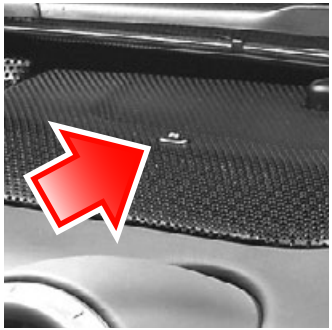
Activation

To turn on the alarm system, press button F on the key:
- the turn indicators flash once;
- the system "beeps";
- the red LED on the dashboard flashes;
- the central door locking system is activated and the doors are locked.

The system activates after approximately 25 seconds.

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





If the luggage compartment is then closed, the sensors will be reactivated.

If the turn indicators and the red LED on the dashboard flash 9 times when you activate the alarm system, it means that one of the doors or the front/rear lid is open or not closed properly and is therefore not protected by the perimeter surveillance. If this is the case, check that the doors and front/rear lids are closed properly and close any door or lid that is open without deactivating the alarm system: the turn indicators will flash once to indicate that the door or the front/rear lid is now closed properly and is protected by the perimeter surveillance.

If the turn indicators and the red LEDs on the dashboard flash 9 times when the alarm system is activated with doors, rear and front lids properly closed, it means that the self-diagnostic feature has detected a malfunction in the system. Contact the Authorized Ferrari Dealer to have the system checked.

Deactivation

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

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

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

The alarm system is off and you can now get into the vehicle and start the engine.

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

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

Deactivating the anti-lift alarm

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

1.2 Entering the vehicle

Opening from the outside

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

When pulling the handle A to open the door, the window moves down approximately 2 centimetres. When the door is closed, it will move back up until it meets the upper limit.

Locking and opening the doors from the inside

Warning ⚠

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

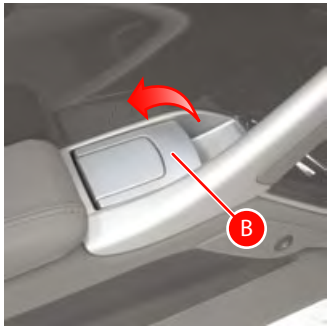
When pulling handle B to open the door, the window will move down to its "target position".

When the door is closed, it will move up until it meets the "upper limit".

If the handle B is pulled without opening the door, the window will lower to the "target position" but, after 2 seconds, if the door is not opened, the window moves up to the "upper limit".

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

Press the "LOCK" C button on the roof to lock both doors and press the "UNLOCK" C button again to unlock them.



1.3 Fuel inertia switch

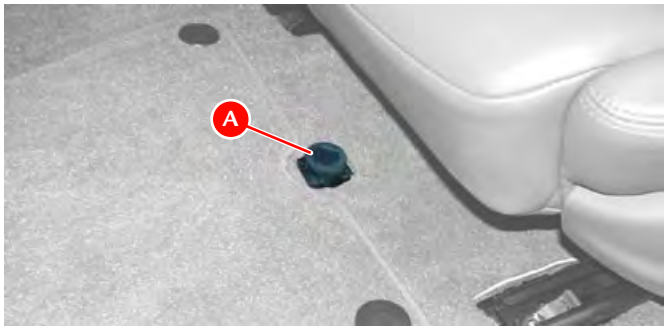
This is a safety switch A located in the passenger compartment, on the floor in front of the driver seat, which deactivates the fuel pump relays if a collision occurs.

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 located on the floor on the driver side.



1.4 Position of battery

On the F12 Berlinetta and F12 TDF models, the battery is located in the front of the engine compartment lid.

To access it, remove the cosmetic shield by unscrewing the two screws on the top.

1.5 Battery connection quick release

The quick release lever is located on the negative terminal (black) of the battery.

Use the locking lever B to loosen the clamp.

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

On the F12 Berlinetta model, the battery is located in the front of the engine compartment lid on the RH side.

To access it, remove the cosmetic shield by unscrewing the three screws on the top.

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.

F12 Berlinetta model

Disconnecting the battery

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

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 (0.8-1.2. in.) 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.

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).

1.6 Access to the luggage compartment

Opening

To open the luggage compartment lid, press button H or button L on the remote control and hold it for more than 2 seconds.

The luggage compartment is illuminated by two dome lights that come on automatically when the lid is opened.

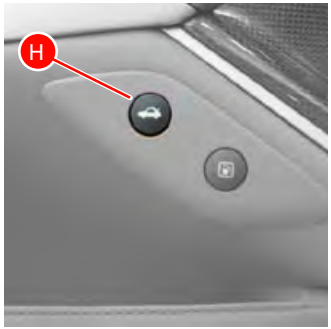
Closing

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

The lock will pull the lid down until it clicks in place.

Warning ⚠

Since the lock closes automatically, always keep your hands away from the area between the luggage compartment lid and the bumper.



1.7 Access to the engine compartment

Opening

To unlock the engine compartment lid, pull the lever D underneath the steering column.

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

The lid is held open by two shock absorbers.

Closing

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

Warning ⚠

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

Emergency Opening

If the lid opening lever does not work, there is a string for manual emergency opening underneath the dashboard near the foot rest area on the passenger side.

1.8 Access to and emergency opening of tank cap

Warning

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

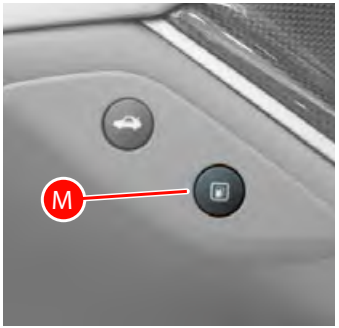
Do not smoke or use open flames when refuelling.

The following can be harmful for your health:

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

Opening

To open the fuel filler flap, press button M to the left of the driver-side floor.



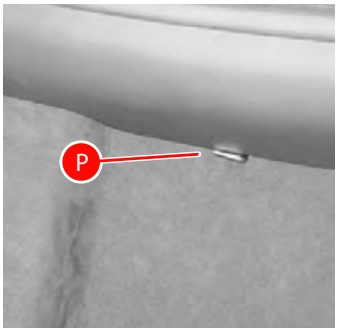
Closing

On the F12 Berlinetta model with a capless fuel filler, you do not need to unscrew the cap and screw it up again when refuelling.

Emergency Opening

If the open button does not work, the fuel filler flap can be opened manually by pulling cable **P** on the RH side of the luggage compartment.

Capless fuel filler



1.9 Starting the engine (with battery charged)

The ignition key can be turned to 2 positions:

Position 0 - Stop

Engine off, key removable.

When the key is even only partially extracted, the steering column is locked.

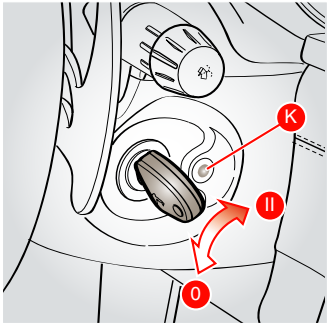
The hazard warning lights and the parking lights can be activated.

To facilitate steering wheel release, turn the steering wheel slightly in both directions while turning the ignition key.

Position II - Ignition

Turning the key to this position, the TFT display will check the signals coming from the vehicle systems.

If no malfunctions are found after starting up, the words "**Check OK**" will be displayed.



Warning

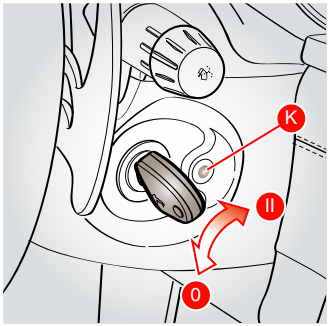
Always remove the key from the ignition when you get out of the vehicle!

Never leave children unattended in the vehicle.

Key lock

If more than 20 seconds elapse after turning the key to position *0*, the key lock device must be released to remove the key:

press button K and remove the key at the same time.



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.

Refer to “Starting and driving the vehicle.

1.10 Starting the engine (with auxiliary battery)

The battery is located in the front of the engine compartment - to access it, open the engine compartment lid.

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.

- Check that the terminals and pins are clean and firmly secured.
- Visually inspect the outer casing for any cracks.

Use an external 12 volt battery of the same or slightly higher power than the one supplied.

Warning

A lead acid battery charger of adequate power (24 volt) may be used by qualified persons only.

Warning

Use leads with suitable characteristics.

- First connect the terminals of one lead to the positive poles (+) of the two batteries and then the terminals of the other lead to the negative poles (-).

Warning

DO NOT REVERSE THE POLES:

DO NOT CONNECT A POSITIVE POLE (+) TO A NEGATIVE POLE (-).

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.

- Start the engine. Refer to "Starting and driving the vehicle.

If the engine does not start after several attempts, contact the Authorized Ferrari Dealer.

- Wait a few minutes before driving off.
- When the engine has started, first remove the negative pole lead (-) and then the positive pole one (+).

Warning

Make sure that the positive lead does not come into contact with the vehicle or the negative lead.

Incorrect operations may cause damage to the vehicle electrical system.

Push start

Warning

Push starting is not allowed.

2.1 Electric parking brake (EPB) operating

The parking brake is controlled by a small electric engine.

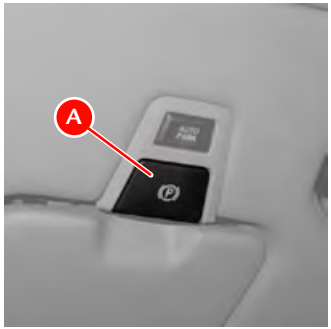
It can be applied and released using the special control A on the dashboard to the left of the steering wheel.

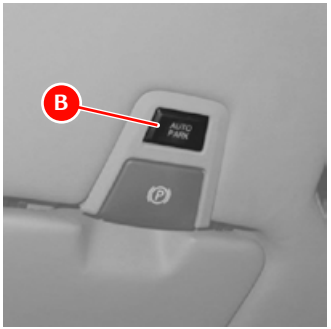
The brake is automatically activated when the engine is switched off and can be temporarily deactivated by pressing the AUTOPARK B button.

Pushing down the brake pedal and pressing button A deactivates it automatically.

The electric parking brake can operate as an emergency brake when the vehicle is in motion.

If this is the case, the electric parking brake communicates with the ESP system to prevent locking. The warning light will turn off when the parking brake is fully released.





Its characteristics are:

- Gradual release of brake shoes/pads when vehicle is started (AVH function): this guarantees an optimised release
- Automatic activation when the engine is switched off (AUTOHOLD function) with the possibility of disabling automatic activation using the AUTOPARK B button, which is part of the EPB control.

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 Authorized Ferrari Dealer.

2.2 Starting and driving the vehicle (DCT gearbox version)

Starting and driving the vehicle (DCT gearbox)

System start-up

When the ignition key is turned to position II the DOT MATRIX gearbox display is activated and the failure warning light A comes on. The warning light will go out if no problems are detected within a few seconds.

The letter P (Parking) or N (Neutral) will remain highlighted on the display.

Warning

BEFORE YOU DRIVE

If the warning light A continues flashing without going off, switch off the system and wait for the gear display to go off before restarting.

If the failure persists, contact the Authorized Ferrari Dealer.

If the warning light A is faulty, a warning light will appear on the TFT display and this condition will be indicated by an acoustic alarm when the ignition key is turned to position II.

Warning

Contact the Authorized Ferrari Dealer.

Operation with the engine off

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

To exit the "Auto easy exit" mode simply operate the UP or DOWN paddles (while the vehicle is moving) or press the AUTO button on the centre console.
Once the "System start-up" stage has been completed, the engaged gear will appear on the DOT MATRIX display:
N (Neutral);
P (Parking);
R (Reverse);
1 (1st gear);
2 (2nd gear), etc.

Immediately release the UP and DOWN paddles and the button R after the display shows that the gear has been engaged; a prolonged manoeuvre would cause the failure warning light to turn on and trigger the buzzer.

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 "Check OK" symbol to appear on the TFT display.
- If the "Check OK" symbol does not appear, turn the key back to position 0, wait a few seconds and repeat the procedure.
- Press the ENGINE START button and release it as soon as the engine starts.
- After the engine has started, the "Check OK" symbol will be displayed.

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 does not start, turn the key back to position 0 and wait for the gear display to go off before repeating the whole operation.

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 held down, pull the right-hand "UP" paddle towards the steering wheel to engage the 1st 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 1st or 2nd gear to "R" (reverse) by pressing R and from reverse to 1st by moving the "UP" paddle.

Warning

If the "UP" and "DOWN" paddles are not working, the message "Press brake pedal and LAUNCH to engage gear" will appear on the TFT display. You can therefore engage the gear by pressing the Launch button 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 the 1st gear.

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

If the system automatically selects 2nd gear when attempting to shift from R to 1st gear, this indicates that 1st gear has jammed. Therefore, this is not a malfunction, as it falls within the system operating logic. For the same reason, when shifting from 1st gear to "R", the system will automatically engage "N" if the gear has jammed.

During prolonged stops with the engine running, it is advisable to keep the gearshift in "N".

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

UP-shifting

Use 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).

This condition does not occur with the system in "SPORT" 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 down shifts "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

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.

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 display will remain on for a few more seconds to display the engaged gear. If the gearbox is in "N" a buzzer will sound.

Warning ⚠

Never leave the vehicle with the gearbox in "N". Make sure that the letter "P" appears on the display.

Warning ⚠

Never leave the vehicle with the engine running.

Warning ⚠

If the vehicle is not in Parking mode ("P" must be displayed on the DOT MATRIX display), the key cannot be removed.

"Automatic gearbox" mode

This mode is activated (or deactivated) using the AUTO button; the word "AUTO" will light up on the gear display and the system will automatically adjust UP-SHIFTING and DOWN-SHIFTING according to the vehicle speed, engine speed and torque/power requested by the driver.

Gearshifting is possible using the "UP" and "DOWN" paddles but the system remains in "Automatic" mode.

To exit the "Automatic" mode, you must press the AUTO button until the "Automatic" warning light goes out.

When the vehicle stops, the request for "N", 1st or "R" does not change the mode from "Automatic" to "Normal".

"Auto easy exit" mode

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

Activation is indicated by the word AUTO ▼ on the gear display on the instrument panel.

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

In “Auto easy exit” mode, if you operate the UP and DOWN paddles (while the vehicle is moving) the system will exit the “Automatic” mode and switch to “Manual” mode.

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.

2.3 Plug-in battery conditioner

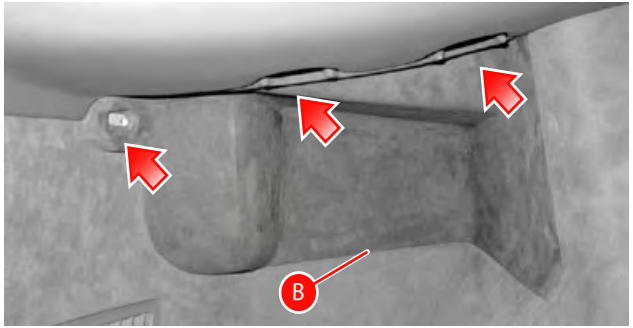
F12 Berlinetta:

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

Using the battery conditioner will extend the life of the battery.

The device is kept in a pocket inside the car cover bag supplied with the vehicle.

The battery conditioner connection socket is located on the left hand side of the luggage compartment behind cover **B**. To access the socket, remove the cover **B** by undoing the three screws indicated in the figure.



Warning ⚠

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

After connecting the battery conditioner to the socket in the vehicle, run underneath the luggage compartment lid near the bottom corner.

Do not run the connection cable out of the vehicle in positions other than those indicated to prevent damaging the seals and/or the cable.

Warning

The engine cannot be started as long as the battery conditioner is connected to the vehicle socket.

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.

Additional technical information on the use of the device can be found in the manual provided inside the pocket of the car cover bag.

F12 TDF:

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 strongly urge you to always use the battery conditioner when the vehicle will be parked for over 70 hours.

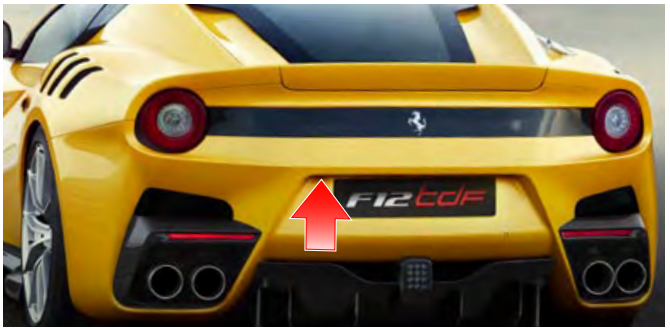
The device is kept in a pocket inside the car cover bag supplied with the vehicle. The socket for the battery conditioner is installed at the back of the vehicle next to the license plate light.

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 vehicle is going to be left unused for periods longer than 70 hours, Ferrari strongly urge you to 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

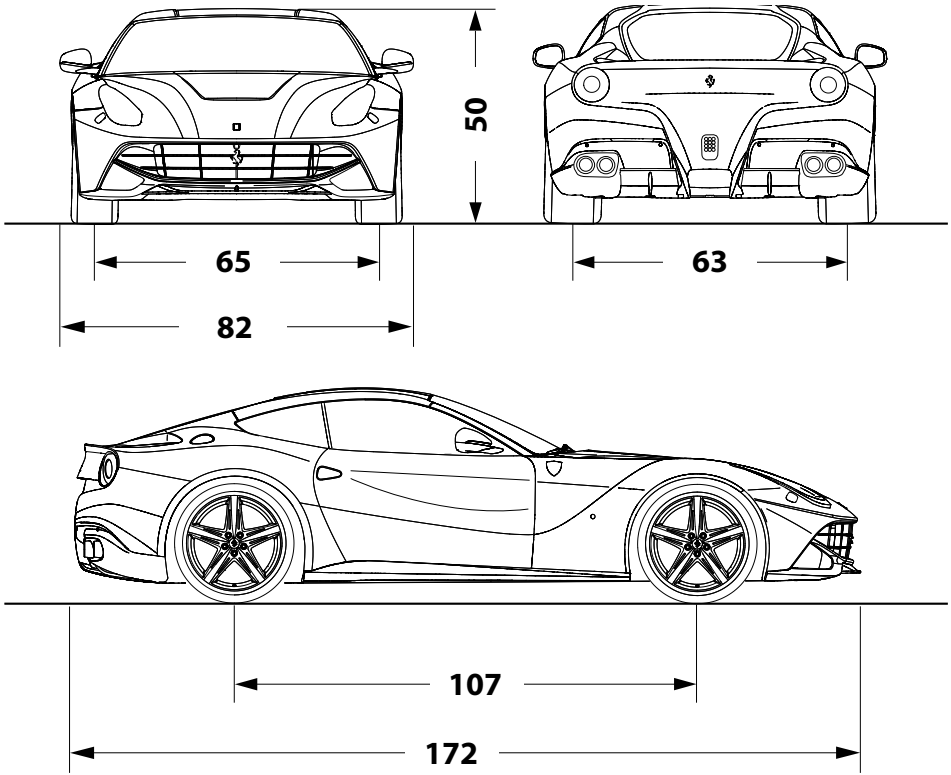
Additional more detailed technical and safety information on use of the device can be found in the “BATTERY CHARGER” leaflet supplied with the vehicle.

3.0 Dimensions and weights

F12 Berlinetta

Wheelbase	107 in. (2718 mm)
Max. length	172 in. (4632 mm)
Max. width	82 in. (2080 mm)
Max. height	50 in. (1276 mm)
Front track	65 in. (1659 mm)
Rear track	63 in. (1600 mm)
Front overhang	38 in. (963 mm)
Rear overhang	37 in. (951 mm)
Curb weight	3850 lbs (1746 kg)*

* With the vehicle fitted with the most popular options available

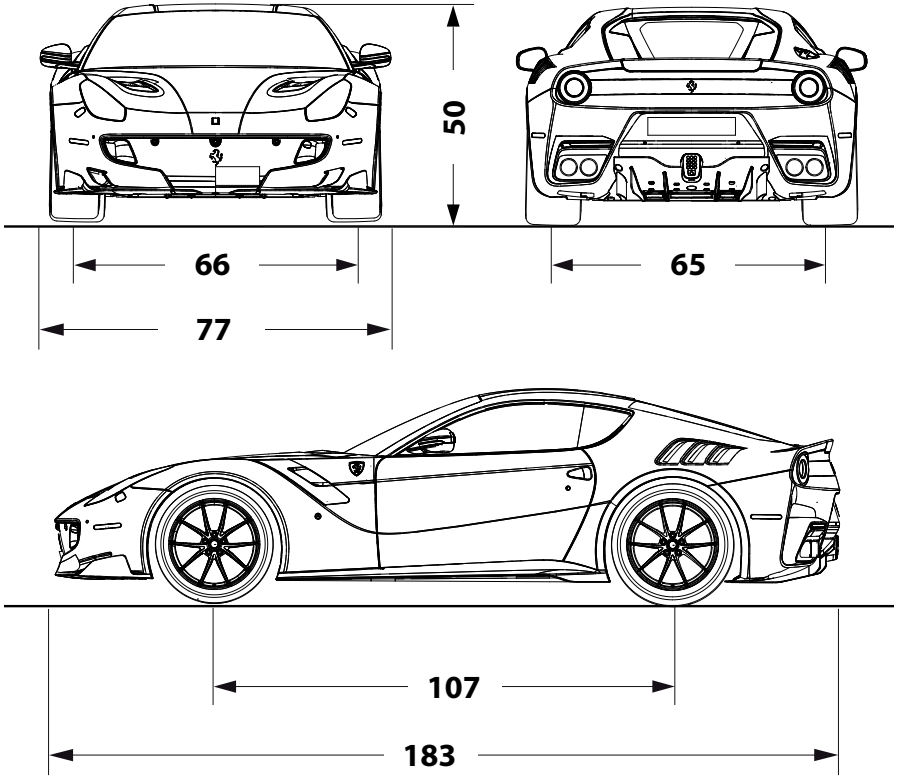


3.0 Dimensions and weights

F12 TDF

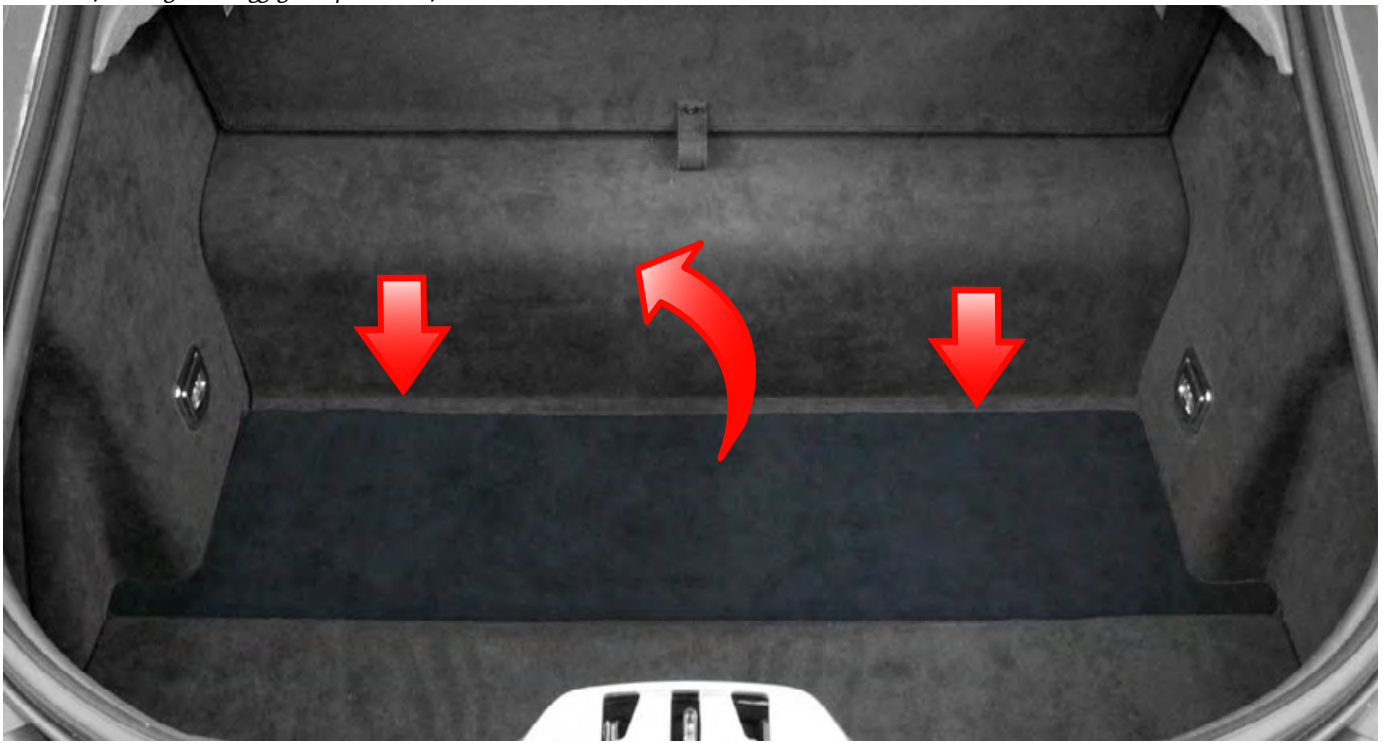
Wheelbase	107 in. (2720 mm)
Max. length	183 in. (4656 mm)
Max. width	77 in. (1961 mm)
Max. height	50 in. (1273 mm)
Front track	66 in. (1673 mm)
Rear track	65 in. (1648 mm)
Front overhang	37 in. (946 mm)
Rear overhang	39 in. (990 mm)
Curb weight	3351 lbs (1520 kg)*

* With the vehicle fitted with the most popular options available



3.1 Position and content of tool bag

Position of tool bag in the luggage compartment of the F12 Berlinetta and F12 TDF



3.1 Position and content of tool bag

Tool bag

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

- set of flat wrenches;
- insulated cutting pliers;
- screwdriver for slotted screws;
- screwdriver for crosshead screws;
- tow hook;
- set of light bulbs;
- set of fuses;
- parking brake manual emergency unlocking wrench;
- “Park Lock” emergency unlocking wrench;
- tire inflation kit.

3.2 Emergency tire repair and inflation kit

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

To use the tire repair and inflation kit correctly, refer to the instruction booklet supplied with the kit.

Warning

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

Warning

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

Warning

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

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 tire.

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 - 50 mph).

Warning

Apply the sticker where it can easily be seen by the driver to indicate that the tire has been treated with the tire repair kit.

Drive carefully especially on bends.

Avoid sudden accelerations or braking.

Warning

The kit is to be used to temporarily repair only one tire punctured by small objects: the kit may not be useful in the case of large punctures or tearing.

After driving for approximately 10 minutes, stop and recheck the tire pressure.

Remember to use the handbrake.

Warning

If the pressure has decreased below **1.8 bar** (26.11 psi), do not continue driving: the kit cannot guarantee the correct hold because the tire is too damaged. Contact the Authorized Ferrari Dealer.

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

Drive very carefully to the nearest Authorized Ferrari Dealer.

Warning

The repaired tire must be replaced as soon as possible and the workshop personnel must be informed that the tire was treated with tire repair fluid.

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

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 tire pressure monitoring system.

If this occurs, the sensor must be replaced. Contact the Authorized Ferrari Dealer.

Warning

Wear the protective gloves provided with the tire repair kit.

3.3 Collapsible spare wheel (if present)

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

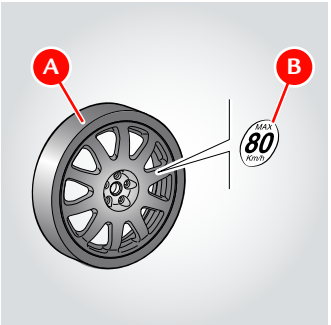
- replace the wheel stud bolts with damaged threads or tapers;
- carefully clean the wheel stud bolts before fitting;
- do not lubricate the contact surfaces between the stud bolt and the wheel rim and between the wheel rim and the brake disk.

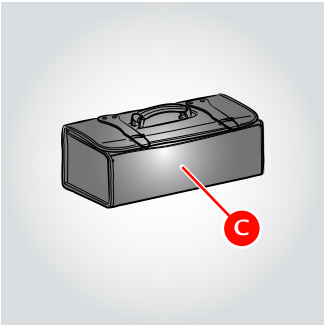
In order not to remove the antilock coating, do not clean the wheel rim cones with solvents or aggressive products.

Collapsible spare wheel

On request, the vehicle comes with a kit containing:

- collapsible spare wheel A with space-saving tire; the label B indicates the maximum speed allowed of 50 mph (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 (50 mph) 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.

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.

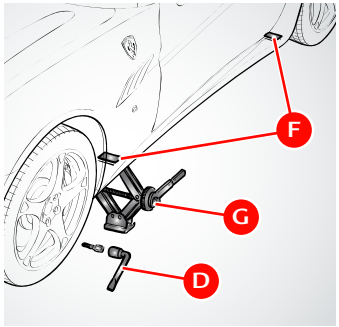
Replacing a wheel

- 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 G 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 G until the wheel is raised off the ground.

Warning

If the jack is not positioned correctly, the vehicle could slip off.

The supplied jack must only be used for changing 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 “tire inflation” mode. Refer to the instruction manual provided with the kit.

- Inflate to the indicated pressure 4.20 bar.
- 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 spare wheel does not have a tire pressure monitoring sensor (see label on spare wheel tool bag). After fitting, it is not checked by the system but complies with international regulations ECE R64/01.

After fitting, we recommend that you go to the nearest Authorized Ferrari Dealer.

3.4 Tow hook

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 out of the tool bag.
- Remove the cap C.
- 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.

You must remove the plastic cap C before proceeding.

Warning ⚠

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

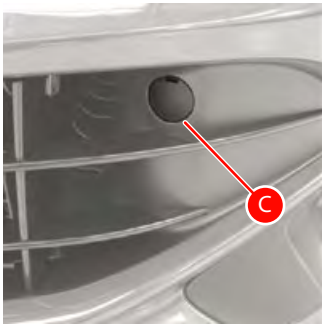
Warning ⚠

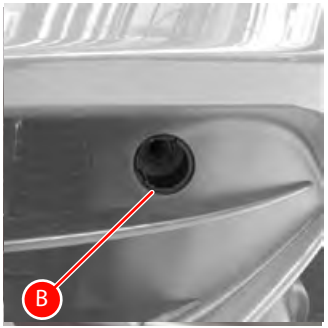
Do not tow the vehicle by attaching it to the levers, suspension and wheel rims but only to the tow hook properly fitted in place.

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.

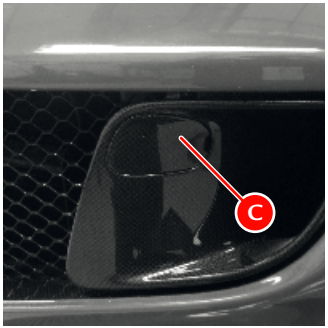
Remember that when the engine is switched off, the power steering and brake servo functions do not work.

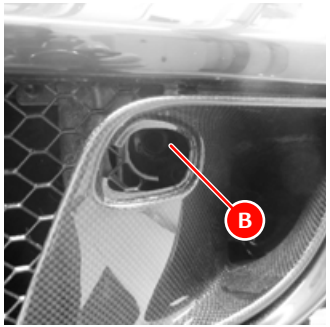
F12 Berlinetta





F12 TDF





3.5 Emergency release of electric parking brake (EPB)

F12 Berlinetta

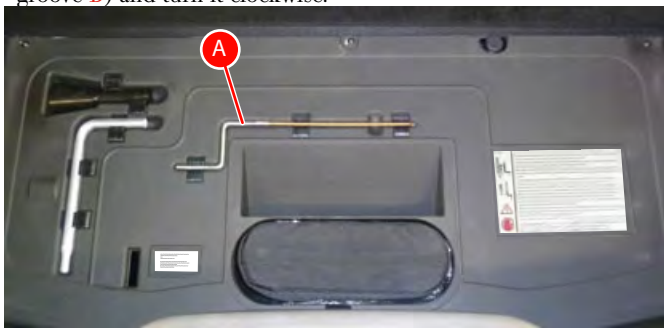
Warning

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 display.

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

- Open the luggage compartment lid.
- Remove the tool kit cover.
- Take wrench A out of the tool kit to release the electric parking brake.
- Place the release wrench in the hole (in the left part of the groove B) and turn it clockwise.



This movement loosens the parking brake cables.

To release the brake completely, the wrench needs to be turned 50 times, whereas 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 warning light and the following message "Parking Brake system revision. Go to dealer" is displayed on the TFT display.

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

Warning

Go to a Authorized Ferrari Dealer.

Calibration is necessary for safety reasons.

Warning

The release procedure must only be carried out by trained workshop technicians and with the vehicle turned off.

If the system cannot be released, contact the nearest Authorized Ferrari Dealer.

Warning

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

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

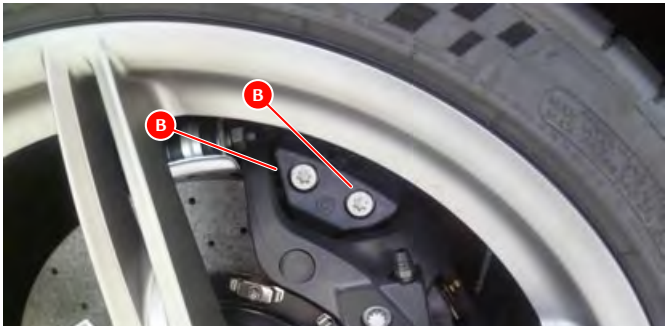
If the electric parking brake cannot be deactivated because the battery is dead or there is a failure in the electrical system controlling it, and the vehicle needs to be moved, the emergency release procedure described below must be performed.

- Before performing this procedure, remove fuse F33 and F34 from the body computer fuse box, situated under the driver side of the dashboard.
- Select the EPB emergency release socket wrench **A** from the tool bag and connect to the extension **D**.

Warning

The EPB emergency release tool **A** may only be used by trained workshop technicians, as indicated on label **C** on the tool bag.

- The EPB system components are situated over the right and left hand rear callipers: insert the EPB release tool **A**, connected to the extension **D**, through the access holes **B**. Insert a standard 1/2" wrench from the opposite end of the extension **D** and turn counterclockwise by two turns to free the brake discs.



Warning

Never loosen the screws completely.

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

Warning

If access to the screws is obstructed by a wheel spoke, the wheel must be removed.

The EPB release procedure is irreversible and compromises the functionality of the parking brake.

Take the vehicle to an Authorized Ferrari Dealer to have the parking brake reset correctly and cancel any errors from the fault memory.

Go to a Authorized Ferrari Dealer.

For safety reasons, the reset procedure is mandatory.

3.6 Emergency release of the Park Lock

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”).

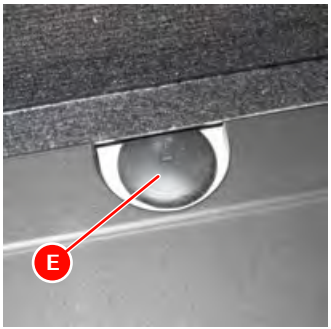
Warning

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.

The Park Lock is a locking device built into the gearbox. It 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 luggage compartment lid has been closed correctly.

After releasing the Park Lock, the following message may appear on the TFT display “Only manual unlock gearbox allowed: See handbook”

Warning

Only perform this Park Lock release procedure if the vehicle is on level ground.

Warning

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

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

Procedure for releasing the Park Lock on the F12 Berlinetta and F12 TDF *model*

On the F12 models, the Park Lock manual emergency release device C is found in the top right of the tool kit, as shown by the arrow in the figure.

- Take wrench D out of the tool kit.
- Remove the rubber protection cap E.
- Place wrench D in the manual release device housing F.
- To perform the emergency release, turn wrench D clockwise for a quarter turn.

Warning

Wrench D may only be used by specialised workshop technicians, as indicated on the label on the tool bag.

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 will appear on the left 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.

Resetting the Park Lock

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

If the electrical system allows it, check that the letter "P" appears on the Dot Matrix display by turning the ignition key to position "II".

Warning

In the event of emergency release due to a Park Lock failure, go to the nearest Authorized Ferrari Dealer to resolve the problem.

Carwash procedure

The Park Lock emergency device can be electronically deactivated on a temporary basis 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 safety device is electronically disabled (Carwash procedure), the vehicle may move unexpectedly!

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

- With the engine running, select the first gear
- Select neutral “N”
- Switch off the engine
- Turn the key to key-on 3 seconds after switching off
- The message “Carwash mode activation” will appear on the TFT display.

3.7 Loading the vehicle onto the trailer

• Manually release the Park Lock.

If possible, use the Carwash procedure described in the previous page..

• Release the electric parking brake (EPB).

Warning ⚠

DO NOT pull the vehicle onto the trailer using the rim spokes as anchors to avoid damaging the wheels.

Warning ⚠

DO NOT attach the straps to the suspension or parts of the body.

• Attach the winch cable to the tow hook to lift the vehicle onto the trailer.

Warning ⚠

DO NOT attach the winch cable to other parts of the vehicle.

Warning ⚠

DO NOT pull the vehicle onto the trailer using only the tow hook but lift it using the special straps.

Warning ⚠

Avoid using excessive force on the tow hook when lifting and pulling the vehicle onto the trailer.

• The use of ramps or wooden planks may be necessary if there is limited space in front of or behind the vehicle.

3.8 Securing the vehicle to the trailer

• Secure the vehicle to the trailer using the wheels and the most suitable device for ensuring it is correctly secured as anchors.

Warning ⚠

DO NOT secure the vehicle to the trailer using the suspension arms, wheel spokes or other parts of the body as anchors.

• Once the vehicle has been secured to the trailer, remove the key.

Glossary

Abbreviation	Meaning
ABS	(Anti-lock Braking System) The ABS prevents wheel locking when braking so that vehicle handling can be maintained.
AC	Air conditioning.
ASR	(Antriebs Schlupf Regelung) Anti-skid regulation during acceleration.
Auto easy exit	Simplified function gear shifting. To exit “Auto easy exit” mode, simply operate one of the two shift paddles.
Autohold	Automatic activation of the electric parking brake (EPB) when the engine is switched off. This function can be disabled.
AVH	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.
CST	Stability and Traction Control. It consists of two systems: VDC and F1-Trac.
DCT	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.
EBD	(Electronic Brake-Force Distribution) Electronically-controlled brake-force distribution.
ECU	Electronic Control Unit.
EPB	Electric Parking Brake: the system operates by means of an ECU and an electric motor on the rear brake shoes.
F1-Trac	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.

Glossary

Abbreviation	Meaning
Launch	Strategy for performance standing starts.
Manettino	The driving mode control switch is a quick, intuitive way to make the most of vehicle potential.
Park Lock	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.
RHT	Retractable Hard Top.
TFT display	Multifunction display on the instrument panel that displays information on the control system.
TPMS	Tire Pressure Monitoring System. Using special sensors fitted inside the wheel rims next to the air valve, the data measured is sent to an ECU. The data and messages are displayed on the TFT display.
Traction power	Force exerted by the vehicle on the road surface through the wheels; it indicates the grip.
VDC	Vehicle Dynamic Control performed through the braking system and engine torque.
Xenon headlights	Headlights on the front of the vehicle that produce a more intense beam by using a voltaic arc rather than an incandescent spiral.

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.