INFORMATION FOR THE FIRST AND SECOND EMERGENCY RESPONSE TEAMS

EMERGENCY RESPONSE GUIDE FOR VEHICLE

Ferrari F80

Ferrari F80
HEV
from 2025 to -



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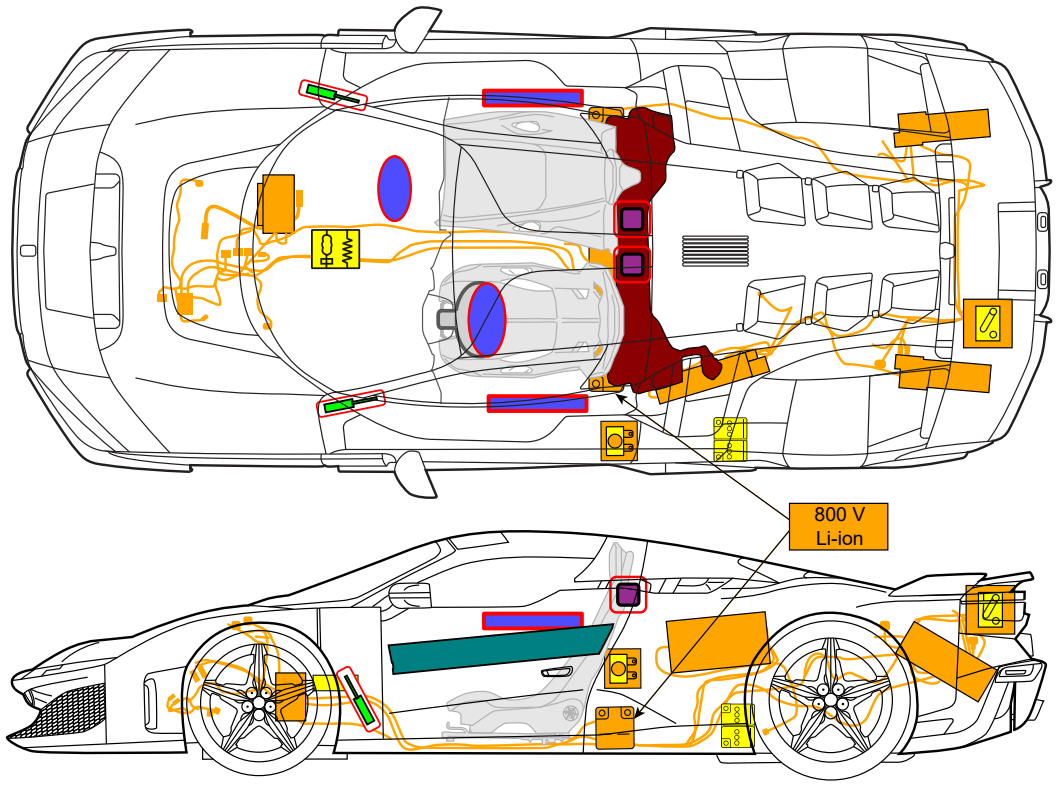
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0. Rescue sheet(s)

Ferrari F80
HEV
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	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit		
			Gas strut / Preloaded spring		High strength zone				
	Battery, low voltage								
	Battery pack, high-voltage		High voltage power cable				Fuse box disabling high voltage		
			Low voltage device that disconnects high voltage		Fuel tank				

1. Identification / recognition

- **Position of model name**



- **Power source:** Gasoline. This vehicle has HEV (Hybrid Electric Vehicle) type hybrid architecture where the internal combustion engine is supported by three electric motors: two at the front and one at the rear. The wording "HYBRID VEHICLE" under the V.I.N. number on the left hand side of the windshield indicates that the vehicle is equipped with a high voltage hybrid system.

The F80 is equipped with numerous safety systems designed to protect you from injury. These features help to ensure safe access to the vehicle under various conditions.
However, whenever you have to intervene on a damaged hybrid vehicle which has been involved in an accident or fire or in rescue or recovery situations, always assume that the vehicle's high voltage system is powered up.

2. Immobilization / stabilization / lifting

- **Completely immobilize the vehicle:**
If possible, stabilize the vehicle by applying the electric parking brake before deactivating the 12V electrical system: press the brake pedal firmly and pull the lever with symbol Ⓟ on the dashboard to the left of the steering wheel.



- NEVER touch the cables, connectors or high voltage system components with your bare hands.
- A failure to deactivate the high voltage system before performing normal emergency response procedures may result in serious burns or electrocution which can also be fatal.
- If you have to touch a high voltage system cable, connector or component, always wear suitable Personal Protective Equipment.

- **How to determine whether the vehicle is ON/OFF:**
Check the instrument panel lighting



KEY-OFF is only performed properly if the engine has been turned off.

■ Lifting points:

Given the aerodynamic shape of the undertray, access to the support points for lifting is not easy: to lift the vehicle, we recommend contacting technicians with suitable equipment to work in complete safety.
If the vehicle has to be lifted following an accident or in order to perform emergency repair work, we recommend passing on the following information to the people who will be performing the work:

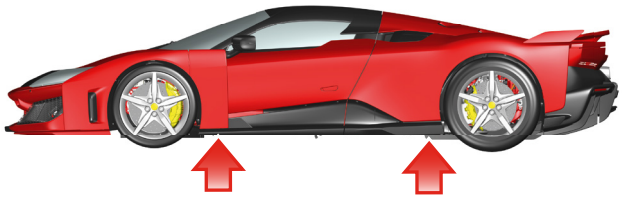
- Never lift the vehicle by pressing on the bottom of the high voltage battery. There is a risk of serious and even fatal injury.
- To lift the vehicle, use only the support points indicated below.

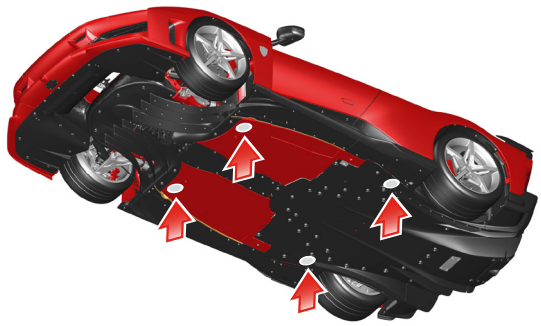
Failure to comply with the above may cause serious injury.

Be very careful when lifting the vehicle to avoid damaging the parts near the support points.

Never lift the vehicle using the support points near the high voltage battery which is in the central rear area.

To lift the vehicle, use the points shown in the figure.





3. Disable direct hazards / safety regulations

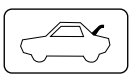
When deactivated with the High Voltage (HV) service connector or by removing the low voltage fuse, the high voltage system does not discharge immediately. Wait at least 30 seconds before performing any work on the vehicle.
Do not touch or cut any components. There is a risk of serious and even fatal injury.

To deactivate the high voltage system, do the following:

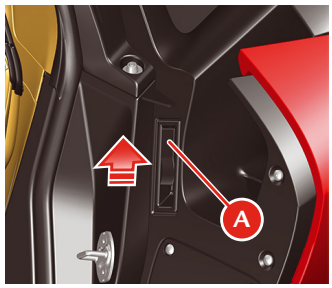
- Open the door on the driver side.
- If the vehicle is still running, perform a KEY-OFF.

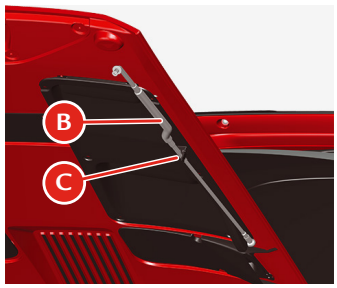


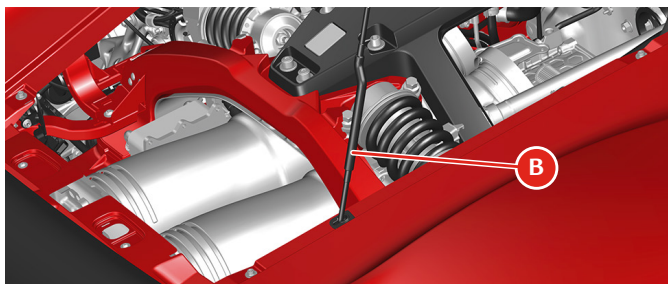
KEY-OFF is only performed properly if the engine has been turned off.



- Pull the release lever **A** on the driver side door pillar.
- Lift the engine compartment lid and keep it raised.
- Unhook the end of the support rod **B** from the clip **C**, on the RH side of the lid.
- Pull the support rod down and put the end in the dedicated slot on the side, as shown in the figure.

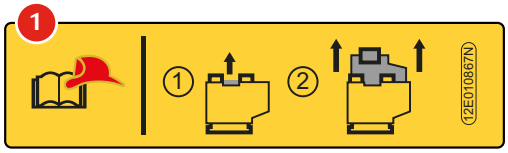


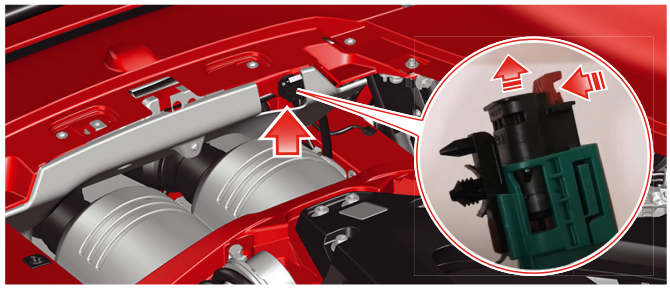




The procedure for deactivating the high voltage system with the High Voltage (HV) service connector must only be performed by technicians in possession of valid Ferrari High-Voltage Technician (F-HVT) certification, or other valid certification (issued by accredited organization) for working on hybrid/electric vehicles and high voltage systems, and who have the necessary equipment to operate in complete safety.

- Go to the HV service connector and pull the release device shown in the figure out, as indicated on label (**1**) affixed to the trim panel.



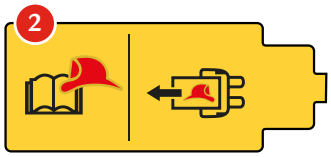


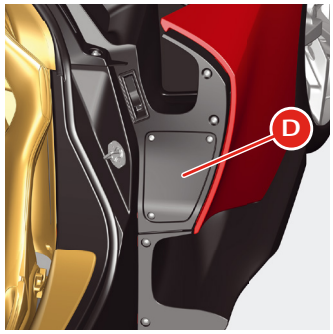
■ Alternative emergency procedure

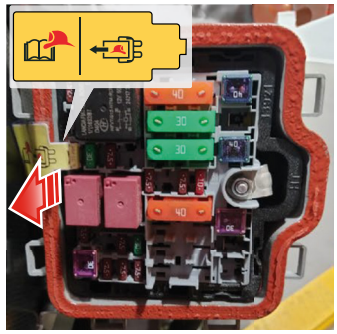
If the HV connector is not accessible, follow the procedure described below:

The procedure for removing the low voltage fuse which deactivates the high voltage system must only be performed by technicians in possession of valid Ferrari High-Voltage Technician (F-HVT) certification, or other valid certification (issued by accredited organization) for working on hybrid/electric vehicles and high voltage systems, and who have the necessary equipment to operate in complete safety.
Only follow this procedure if you cannot access the HV service connector in the engine compartment.

- Remove the fuse box cover D of the external passenger compartment on the driver side by unscrewing the fixing screws.
- Remove the fuse shown in the figure with tab (**2**).







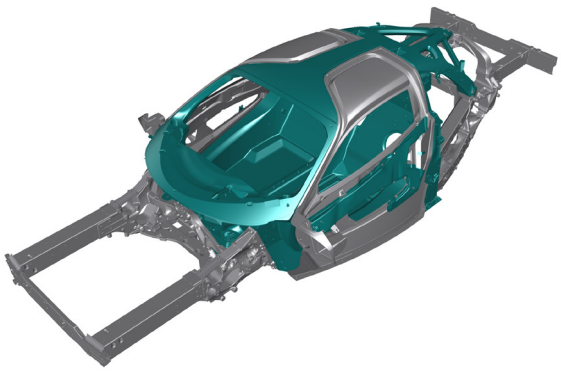
4. Access to the occupants

Do not cut, touch or work on the high voltage components. IF YOU DO, there is a real risk of even fatal injury.

Do not cut the hybrid system high voltage battery: There is a risk of serious and even fatal injury.

If vehicle components have to be removed, NEVER touch any of the high voltage system components or the high voltage cables. There is a risk of serious and even fatal injury.

■ High strength zone on bodywork



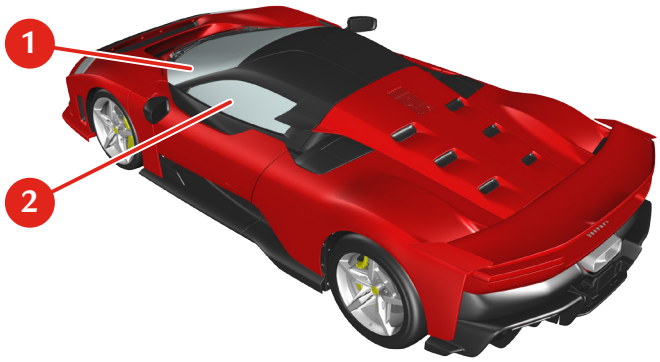
■ Zones NOT subject to cutting:

Do not cut the bodywork near the airbag and the high voltage system. See first page

■ **Windows:**
1. Laminated glass with integrated heat circuit, reduced thickness
2. Tempered glass, reduced thickness



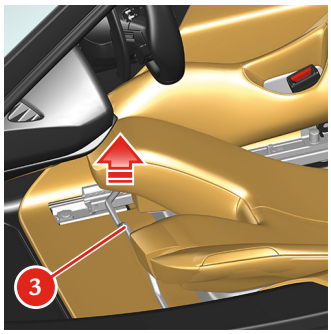
■ **Type of bodywork:**
Carbon

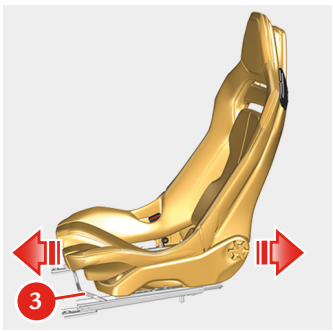


■ **Seat adjustment:**
The driver's seat and passenger seat are positioned asymmetrically and are different.

Basic driver seat
- Back/forward adjustment

Pull lever **3 upward** and slide the seat forward or backward to the desired position.

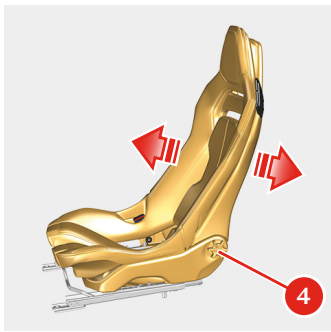


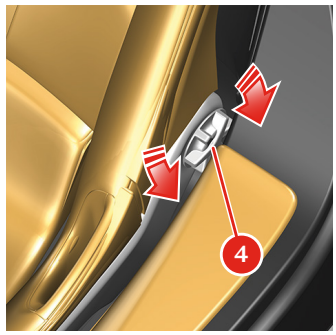


Release the lever and gently rock the seat back and forth to check that it is securely locked.
- Seat back rake adjustment

Turn the knob **4** clockwise or counterclockwise to set the required backrest rake angle.

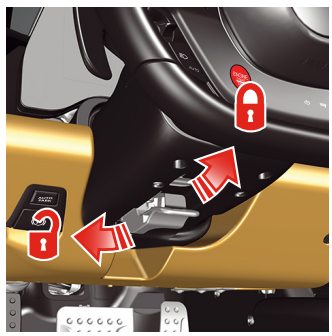
Passenger seat
The passenger seat is fixed, monocoque and integrated into the bodyshell.





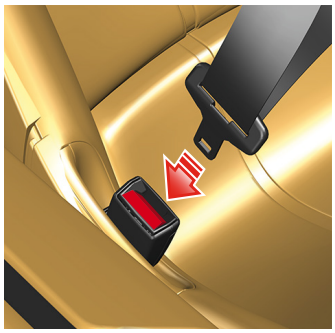
■ **Steering wheel adjustment:**
The steering wheel can be adjusted for rake and reach.

Mechanical adjustment
- Unlock ( ) the lever shown underneath the steering column by pushing it toward the dashboard.
- Adjust the position of the steering wheel.
- Lock ( ) the steering wheel by pulling the lever toward you until it locks into place.



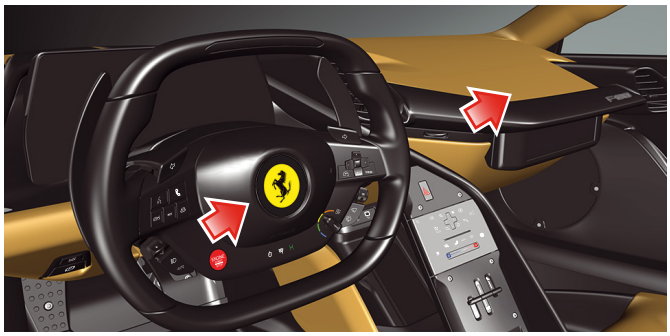
■ Auxiliary occupant protection systems:

- 3-point driver and passenger seat belt (with pretensioner and an automatic system that reduces the force applied to the occupant);
- 4-point driver and passenger seat belt (with load limiting device) - **(optional - if available);**
- dual stage driver-side front airbag;
- dual stage passenger-side front airbag;
- driver-side lateral head protection airbag
- passenger head protection lateral airbag (head bag);
- passenger seat with occupant classification sensor (available for US and Canada markets);
- Seat with built-in headrest;
- electronic control unit (ECU);
- additional sensors;
- airbag system failure warning light;
- body with crumple zones.

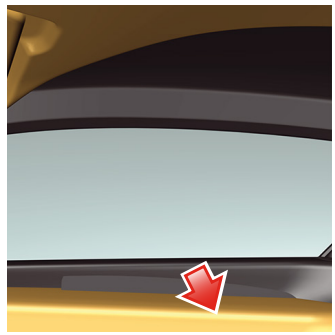




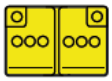








5. Stored energy / liquids / gases / solids

	Capacity	Hazard
12 V LI ION battery 	40 Ah	
800 V LI ION battery 	3.01 Ah	
A/C system 	(R-1234yf) 34 ± 0.7 oz	
Front Airbag Inflator 	-	
Side Airbag Inflator 	-	
Fuel Tank 	16.75 US Gal.	

- Under normal conditions of use, the battery poses no risk of exposure to its contents.
- In addition to a conventional 12V electrical system, the vehicle also has a 800 V high voltage system. High voltage is extremely dangerous and may cause serious burns and a violent electric shock which can result in serious or fatal injury. The high voltage electrical system and high voltage battery are dangerous and may cause burns, other serious injuries or death. Never attempt to remove or tamper with the high voltage cables **(with orange covering)**, the high voltage battery, connectors or any other component in the high voltage electrical system, especially if it appears to be damaged.
- Electrolyte or battery acid is corrosive. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing. Specifically, wear protective gloves, an apron and face protection. In case of contact, rinse any splashes of electrolyte or acid off immediately with clean water. Seek immediate medical attention.
- Do not inhale any gases produced by the battery.
- The following safety measures must be observed when handling the battery.
  - Do not immerse the battery in liquids.
  - Do not expose the battery to temperatures of over 122°F: do not incinerate the battery.
  - Do not allow the internal temperature of the battery to drop to below -40 °F.
  - Short circuits and physical damage are the most common causes of malfunction when handling the battery.
  - Appropriate PPE (personal protective equipment) (e.g., nitrile gloves and eye protection) must always be worn when handling the battery.
  - Metallic jewelery (e.g., rings, bracelets, watches, necklaces, etc.) that may come into contact with the metal parts of the battery should be removed or covered with a non-conductive material; keep all non-essential metal objects away from the battery and take care when using metal objects such as tools in the vicinity of the battery.
  - Never touch a damaged battery.
- Exposure to high voltage components can cause electric shock and burn injury or even death. These components may only be repaired by technicians with specific training on working with high voltage systems.
- DO NOT tamper with the high voltage battery. DO NOT remove the screws on the battery or the high voltage protection guards. DO NOT dismantle the high voltage battery.
- The battery pack cover must not be broken or removed under any circumstances, including fire. This may cause severe electrical burns, electric shock or electrocution.

6. In case of fire

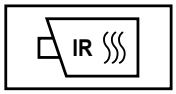


Use large amounts of water

In the event of a fire, immediately contact the fire emergency responders and follow the steps below to start to extinguish the fire.
If you cannot apply large amounts of water to the high voltage battery, we recommend letting the battery fire burn itself out.



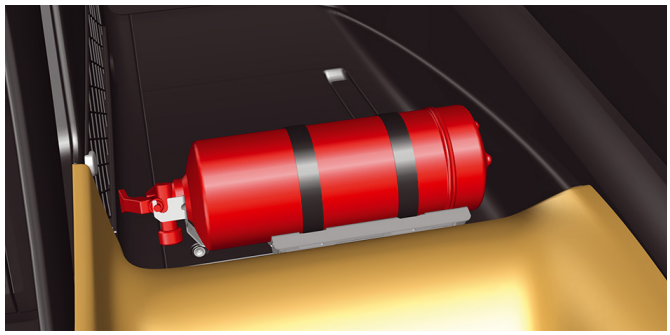
HIGH VOLTAGE BATTERY:
RE-IGNITION IS POSSIBLE!



■ Vehicle fire extinguisher (optional)

Never use sea water or salt water.

When using the fire extinguisher, keep a safe distance from the flames.
To use the extinguisher, follow the instructions written on it.



If the fire is limited in size, a powder-based fire extinguisher suitable for extinguishing class A, B, C fires caused by electrical cables or components, etc. or oil may be used.



7. In case of submersion

If the vehicle is immersed completely or partially in water, do not touch any high voltage system cables, connectors or components.



Normally, contact with the bodywork of a hybrid vehicle submerged in water does not pose a high voltage risk and normal extrication procedures can therefore be performed and the vehicle safely moved by following these recommendations:

- remove the vehicle from the water;
- if possible, let the water drain out of the vehicle;
- follow the procedures for stabilizing the vehicle and deactivating the high voltage system.

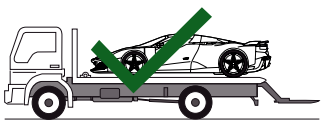
■ See Section 3.

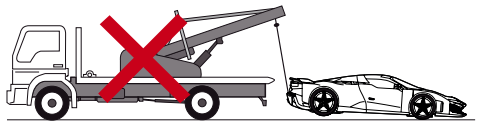
8. Towing / transportation / storage

■ Transport

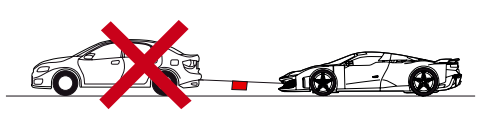
Towing the vehicle is not permitted. Towing can cause serious damage to the vehicle and the high voltage hybrid system.

The tow hook supplied with the vehicle may only be used in an emergency to load the vehicle onto a recovery truck or flatbed trailer.

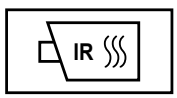








**HIGH VOLTAGE BATTERY:
RE-IGNITION IS POSSIBLE!**

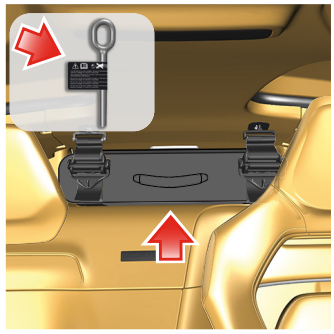


■ Towing

To tow the vehicle onto a recovery vehicle, avoid using anchor points that are not designed for the tow hook inserted in the housing on the front bumper.

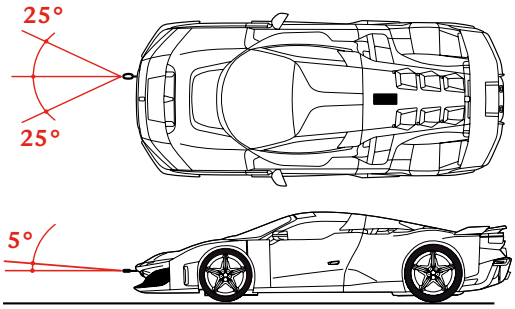
Do not use the levers, suspension and wheel rims but only the tow hook properly fitted in place.

1. take the tow hook out of the tool bag
2. make sure that the area is free of dirt and tightly screw the tow hook into the housing on the RH side of the front bumper which can be accessed by removing the external protective cap shown by the arrow;
3. if it is not engaged before KEY-OFF, release the parking brake (EPB) by pulling the lever on the dashboard and pressing the brake pedal.





Maximum angles of tow of the tow hook in the two tow levels: 25° and 5°.



If there is an electrical system failure, release the electric parking brake (EPB) and Park Lock manually.
If the electrical system is still working, perform a KEY-OFF before towing.
Only if necessary and if the electrical system is still working, leave the instrument panel on (KEY-ON) to enable the lights to work; when towing the vehicle, do not try to start the engine.

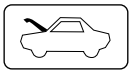
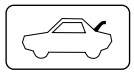
Please note that with the engine turned off, the brake system is not fully functional.

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

9. Important additional information

- **Auxiliary occupant protection systems:**
  See Section 4
- **Service:**
  Make sure that all maintenance work and inspections are performed by the FERRARI AUTHORIZED NETWORK. FERRARI recommends contacting an Authorized Ferrari Dealer, available on the official FERRARI website (https://www.ferrari.com).

10. Explanation of pictograms used

	Safety-related information: General warning sign		Risk of flammability
	Risk of electrocution		Risk of explosion
	Warning: Low temperature		Risk of acute toxicity
	ABC fire extinguisher		Hazardous to human health
	Use water to extinguish the fire		Risk of corrosive substances/materials
	Air conditioning component		Risk of gases under pressure
	Open the luggage compartment lid		Open the engine compartment lid
	To indicate that an infrared camera must be used to detect a fire		