

### Release 3+ Vehicle Assistance Systems - White Warning in the Instrument Cluster: Assistance Systems currently restricted

#### Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Cayenne	As of 2024	9YA, 9YB	N/A	N/A
Macan Electric	As of 2024	XAB	N/A	N/A
Taycan	As of 2020	Y1A, Y1B, Y1C	N/A	N/A
911	As of 2020	992	N/A	N/A
Panamera	As of 2024	YAA, YAB	N/A	N/A

#### Revision History

Revision	Release Date	Changes
0	February 14, 2025	Original document

#### Condition

The customer complains of three white warning messages in the instrument cluster that read, "Emergency Stop Function currently not available. Driving permitted.", "Active Lane Keeping currently not available. Driving permitted.", and "Assistance Systems currently restricted. Sensor is dirty, observe messages in central display." Along with these warnings comes yellow warning indicators for the affected driver assistance systems.

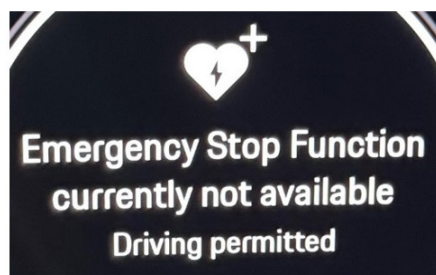


Figure 1  
First white warning in the  
instrument cluster

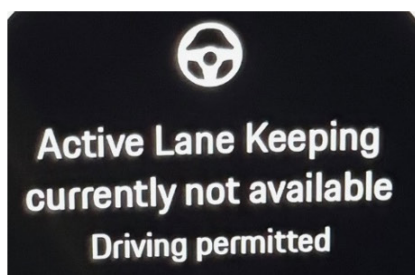


Figure 2  
Second white warning in the  
instrument cluster

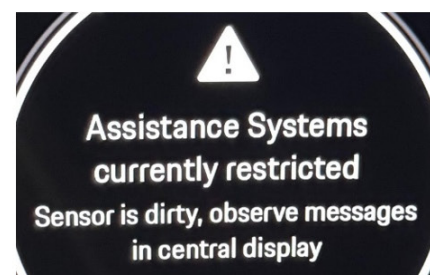
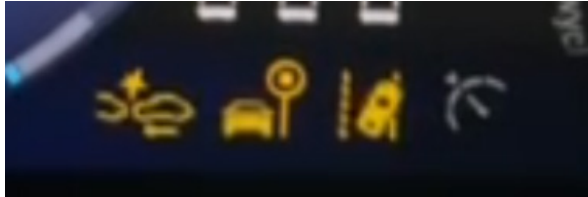


Figure 3  
Third white warning in the  
instrument cluster

## Advanced Technical Information



**Figure 4**  
Yellow indicators for affected systems

### Technical Background

In the event of frost, ice, dirt, etc. on the windscreen, the front camera used for many driver assistance systems is blocked from being operationally active, which in many cases is only temporary. This results in a 'reversible' white error in the instrument cluster to instruct the driver that these functions are not available while the camera is obstructed. In such cases, these messages and the affected assistance systems are functioning as designed.

### Service Information

Please inform the customer that any obstructions of the front camera (e.g., dirt, ice, snow, etc.) may restrict the functionality of the front camera. For the active lane keeping warning see Owner's Manual for more information: Section "Driving Assistance" => "Lane Keep Assist" => "Activating and deactivating Lane Keep Assist" and Section "Driving Assistance" => "Active Lane Keeping" => "System Limitations".

Driving assistance

**Displays**

Fig. 146: Drive Assist display

A Lane Keep Assist display

B Animation of steering intervention

Symbol	Meaning
	Lane Keep Assist performs a corrective steering action.

Refer to chapter "Warning lights and indicator lights" on page 64.

**Activating and deactivating Lane Keep Assist**

Depending on the laws of the specific country, Lane Keep Assist is automatically active after establishing operational readiness.

**WARNING** Risk of accidents due to disregarding system limitations

- Only switch on and activate the system if traffic conditions, road conditions, and weather allow it.
- Staying Attentive: Make sure that you can take control of the vehicle at any time.
- Keep front camera free of dirt, ice, snow, and foreign objects.
- Even with the system switched on: The driver is responsible, e.g., for adjusted speed and safety distance.

**Manually deactivating Lane Keep Assist**

- Press and hold the S (Fig. 146) button on the control lever.
- Lane Keep Assist is switched off. The corresponding symbol (Fig. 146) appears in the instrument cluster.

– or –

Assistance > Additional functions > Lane Keep Assist

**Manually activating Lane Keep Assist**

- Press button S (Fig. 146) on the control lever.
- Lane Keep Assist is switched on and active. The symbol A (Fig. 146) is displayed on the instrument cluster.

– or –

Assistance > Additional functions > Lane Keep Assist

**Setting lane departure warning**

The lane departure warning may alert the driver acoustically when the vehicle approaches a detected lane marking and threatens to leave the lane.

Assistance > Additional functions > Lane Departure Warning

Symbol	Meaning
	Lane Keep Assist is switched on and active on at least one side.
	Lane Keep Assist is switched on but passive.
	Lane Keep Assist is switched off.

120

**Figure 5**  
First reference for active lane keeping warning

## Advanced Technical Information

### Driving assistance

#### Active Lane Keeping

##### Operating principle

Active Lane Keeping is a system that supports the driver within the system limits in a speed range of approx. 0–130 mph (0–210 km/h) through continuous steering actions to keep the vehicle in the center of the lane. However, driving is always the responsibility of the driver. The system is designed for driving on highways and well-surfaced federal and state roads. The system is available depending on equipment and country.

Active Lane Keeping uses sensors in the front and rear bumpers as well as the front camera to detect the environment in front and behind the vehicle.

> Refer to chapter "Sensors and cameras" on page 20.

When the system is active, the driver can set a preferred position within the lane. When the driver keeps the vehicle at the desired position for several seconds, the system ends Active Lane Keeping and starts driving in the selected offset position. The shift in position is reset again when the system becomes passive or is switched off (e.g., by activating the turn signal, lane change, or braking).

Active Lane Keeping can make it easier to drive in traffic jam situations. The system always prioritizes the lane markings over other objects, e.g., vehicles. In some cases, this can mean that the driver has to position the vehicle in the center of the lane in order to activate the system. Activation of the system outside the center of the lane is prevented so that the driver does not feel a strong movement on the steering wheel immediately after the system is activated. The driver is responsible for moving to the side of

the road to create a lane for emergency vehicles. In such situations, the driver can switch off the system or override the system using the steering wheel.

##### Behavior when the turn signal is activated

If a lane marking is overridden with the turn signal set, the system does not warn and steer. The lane change is interpreted as intended in this case.

##### Behavior if there is no steering activity

The driver's steering behavior is monitored when Active Lane Keeping is switched on and active. If there is no steering activity, i.e., hands not on the steering wheel or only resting lightly, a warning message appears on the instrument cluster. The system prompts the driver to actively take over the steering. If the driver does not react to the takeover prompt, the system switches to a passive state. In vehicles with an activated emergency stop function (depending on the country), the vehicle can be slowed to a full stop.

> Refer to chapter "Emergency Stop Function" on page 147.

##### System limitations

The system is available in the following speed range: 0–130 mph (0–210 km/h).

##### The system cannot detect the following situations:

- Persons and animals
- Crossing or oncoming vehicles in the same lane

##### Do not use the system in these situations:

- in urban traffic
- in areas with roadworks
- when approaching humps and dips
- on winding and narrow country roads

- in bad road conditions, e.g., potholes
- off-road or on unpaved or slippery roads
- in adverse weather conditions, e.g., fog, snow or heavy rain
- when windshield is misted-up
- during sporty driving

##### The following situations may arise:

- The system does not always keep the vehicle in the center of the lane or in a central position behind the last vehicle in the line.
- In the case of heavy braking, corrective steering actions might not take place.
- During active steering by the driver, corrective steering intervention might be reduced or not take place.
- The system cannot fully detect the environment. Steering interventions might not take place.
- The system cannot correctly interpret the environment. This could result in inadvertent steering interventions.
- Corrective steering interventions alone may not be sufficient to keep the vehicle in the driving lane in the case of ruts, winding roads, inclined road surfaces or a crosswind. The driver must actively steer in such situations.
- The system may not work as expected in ambiguous traffic situations such as turning lanes, exits, construction sites or city traffic. Steering intervention might not take place or be plausible.
- The system can remain active in unwanted or unexpected situations or unexpectedly go into passive mode.

121

**Figure 6**  
**Second reference for active lane keeping warning**

For the emergency stop function warning see Owner's Manual for more information: section "Occupant protection" => "Emergency Stop Function" => "System limitations".

### Occupant protection

With these warnings, the system prompts the driver to take over vehicle control:

- Driver instructions in instrument cluster
- Warning tones
- PCM muting and driver instructions
- Belt jerk
- Brake jerk and slight braking

If the driver continues to remain inactive, the system will perform an emergency stop:

- The emergency flasher is activated.
- The seat belt is pretensioned.
- The windows are moved to a defined position.
- The seat bolsters are inflated (depending on equipment).
- The horn sounds repeatedly to warn the surrounding traffic.
- The vehicle is braked to a full stop in its own lane. Additional braking pressure is performed.

If the vehicle has come to a full stop, the system performs the following actions:

- Parking lock and parking brake are activated.
- Doors are unlocked.
- Interior lighting is activated.
- Emergency call is triggered (depending on country and equipment).

> To start up again: Select gear D or R.

##### System limitations

##### The system cannot detect the following situations:

- Persons, cyclists and animals
- Objects on the road
- Oncoming vehicles and cross traffic

The system may be limited, unresponsive, or automatically deactivate when the following situations occur:

- The driver actuates the accelerator pedal, the brake pedal or the steering wheel.
- Other assistance systems are available to a limited extent.
- The sensors or the front windshield (in the area of the front camera) are dirty or damaged.

##### Displays

##### Read system states in the instrument cluster

Symbol	Meaning
No display	Emergency stop function is switched on and passive.
	Emergency stop function is switched on and active.
	Emergency stop function is switched on, active, and guides the vehicle within the lane.
	Emergency stop function is switched off.

> Refer to chapter "Warning lights and indicator lights" on page 64.

##### Overriding emergency stop function

The emergency stop function can be overridden by the driver while driving. This makes the system temporarily passive. This also happens when the driver oversteers without being aware of it.

- ▶ Move the steering wheel.
- or –
- ▶ Touch steering wheel (depending on country and equipment).
- or –
- ▶ Press the brake pedal.
- or –
- ▶ Forcefully pressing the accelerator.

##### Activate and deactivate emergency stop function

The emergency stop function is activated automatically after operational readiness has been established.

**▲ WARNING** Risk of accidents due to non-compliance with system limitations

- ▶ Staying Attentive: Make sure that you can take control of the vehicle at any time.
- ▶ Keep sensor and front camera free of dirt, ice, snow, and foreign objects.
- ▶ Even with the system switched on: The driver is responsible, e.g., for adjusted speed and safety distance.

##### Activate and deactivate emergency stop function

- ▶ Assistance ▶ Additional functions ▶ Emergency Stop Function

148

**Figure 7**  
**Reference for emergency stop function warning**

---

## Advanced Technical Information

---

**Bulletin #: 2503**

Part ID: 9638

9

The third white warning of Figure 3 of "Assistance Systems currently restricted" always accompanies one of the other listed white warnings.

If it is determined that there was no obstruction to the camera at the time of the warnings, continue further diagnosis.

### Search Items

Cayenne, Taycan, 911, Panamera, Macan (H2), Front Camera, Assistance Systems

**Important Notice:** Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.