

## FUNCTION : MULTI-SENSORY PACK

**N.B.** : (\*) According to version.

### 1. Foreword

The multi-sensory pack function permits configuration of the vehicle (dynamic driving and multi-sensory ambience) via an intuitive and simplified man-machine interface.

The multi-sensory pack function acts on the 5 senses of the vehicle's driver and passengers.

### 2. Activation / Deactivation

#### 2.1. Conditions of activation

The multi-sensory pack function is activated if the following conditions are met :

- The ignition is on
- A multi-sensory pack mode is selected

#### 2.2. Conditions of deactivation

The multi-sensory pack function is deactivated if one of the following conditions is met :

- The ignition is switched off
- The multi-sensory pack function is deactivated via the multifunction touch screen
- A user profile is modified

### 3. Principle of operation

The multi-sensory pack function permits management of the following functions :

- Ambience lighting
- Sound adjustments
- Multi-point massage (\*)
- Dynamic driving
- Ioniser (\*)

#### 3.1. Ambience lighting

The ambience lighting consists of controlling the ambience lamps to create a light atmosphere in the vehicle.

The multi-sensory pack function allows the user to manage and set the intensity of the ambience lighting colour in the passenger compartment.

The user selects a multi-sensory pack mode via the multifunction screen.

The built-in systems interface controls the following lamps :

- Front central courtesy lamp
- Right-hand and left-hand footwell lamp (\*)
- Rear left door interior opening control lamp (\*)
- Rear right door interior opening control lamp (\*)
- Front left door interior opening control lamp (\*)
- Front right door interior opening control lamp (\*)
- Connector area lamp
- Front central armrest lamp

The passenger compartment LED management ECU controls the following ECUs :

- Ambience lighting ECU 1 (\*)
- Ambience lighting ECU 2 (\*)

**N.B.** : The ambience lighting only comes on if the sidelamps are on.

### 3.2. Sound adjustments

The selection of a multi-sensory pack mode permits the activation of a pre-set audio system equaliser sound ambience.

The multi-sensory pack function allows the user to set the sound ambience and change the components of the playlist via the multifunction touch screen.

To create a sound ambience, the telematic ECU uses :

- The audio amplifier (\*)
- All of the speakers

### 3.3. Ioniser (\*)

Role of the ioniser :

- To eliminate unpleasant odours
- To purify the air for more comfortable breathing
- To neutralise static electricity and reduce electromagnetic interference (stress factor)
- The ioniser is put into operation directly after the activation of a multi-sensory pack mode

### 3.4. Multi-point massage (\*)

The activation of the multi-sensory pack function permits activation of the multi-point massage function.

By changing the default settings of a multi-sensory pack mode, the user can act on 2 multi-point massage settings :

- The massage mode
- The massage intensity

The front seat pneumatic functions ECU distributes the pneumatic flow in the inflating pockets in accordance with the massage mode pre-set in the multi-sensory pack mode selected.

### 3.5. Dynamic driving

The dynamic driving function amplifies the sensations linked with driving.

The dynamic driving function is activated/deactivated :

- From the dynamic driving function button
- By activating a multi-sensory pack mode

Role of the dynamic driving function :

- To vary the power steering assistance
- To modify the automatic gearbox gear change patterns (\*)
- To add a boost of acceleration at each gear change (With an automatic gearbox) (\*)
- To change the accelerator pedal mapping
- To change the colour of the instrument panel and of the multifunction screen
- To add telemetry information
- To create an engine sound ambience via the speakers
- To modify the damping functions of the variable damping suspension (\*)

#### 3.5.1. Conditions of activation

The dynamic driving function is activated in the following conditions :

- Dynamic stability control operational but not active
- Vehicle with the "ignition positive" on
- Engine running or in automatic stopping of the internal combustion engine mode
- Automatic gearbox snow mode deactivated
- Semi-automatic parking assistance deactivated (\*)
- Automatic parking assistance deactivated (\*)
- No fault has been detected.

### 3.5.2. Conditions of deactivation

The dynamic driving function is deactivated in the following conditions :

- Dynamic stability control operational and active
- Switching off of the ignition positive
- Automatic gearbox snow mode activated
- Semi-automatic parking assistance activated (\*)
- Automatic parking assistance activated (\*)
- Fault detected

### 3.5.3. Management of the electric power steering

Activation of the dynamic driving mode is inhibited when the vehicle is turning in the following conditions :

- Speed of rotation of the steering wheel angle greater than 100°/s
- Steering wheel torque greater than 2,5 N/m

### 3.5.4. Management of the power train and automatic gearbox (\*)

The switching off of the internal combustion engine in the case of the Stop and Start does not deactivate the dynamic driving function.

The activation of the dynamic driving function uses a specific pedal map with greater acceleration with equivalent pressure on the accelerator pedal.

The automatic gearbox adopts a sport pattern with faster gear changes.

### 3.5.5. Management of the man/machine interface

The activation of the dynamic driving function is confirmed by :

- The emission of an audible signal
- Lighting of the dynamic driving function activation/deactivation button indicator lamp
- Displaying of the telemetry page
- Changing of the colour of the instrument panel

The following information is displayed on the telemetry page of the instrument panel :

- The turbocharger pressure
- The engine torque
- The engine oil temperature (\*)
- The longitudinal acceleration
- The lateral acceleration
- The engine power

### 3.5.6. Management of the audio system

Activation of the dynamic driving function results in :

- Switching on of the audio system audio amplifier (\*)
- Cutting off of the playing of audio media regardless of the source

The telematic ECU uses all of the speakers to create an engine sound ambience.

### 3.5.7. Variable damping suspension management (\*)

One of the variable damping suspension modes is automatically selected when one of the multi-sensory pack mode is selected.

The variable damping suspension ECU controls each independently-controlled damper according to the suspensor mode chosen in the multi-sensory pack mode.

### 3.5.8. Dynamic driving function fault

A fault on one of the following components deactivates the dynamic driving function :

- The electric power steering
- The automatic gearbox or the manual gearbox
- The variable damping suspension (\*)
- The audio system

- Instrument panel
- The multifunction display

The unavailability of or a fault in the dynamic driving function results in flashing of the dynamic driving function button indicator lamp.

**N.B. :** The unavailability of or a fault in the dynamic driving function does not result in deactivation of the multi-sensory pack function.

## 4. Multi-sensory pack modes

The multi-sensory pack function consists of 3 modes offered to the user, these 3 modes can be fully personalised by changing their components.

The components of each multi-sensory pack mode are pre-set at the factory. The settings below are offered by default on activation of a multi-sensory pack mode.

Components	Mode 1	Mode 2	Mode 3
Vehicle dynamics	Data not available	Data not available	Data not available
Ambience lighting	Data not available	Data not available	Data not available
Animation of the instrument panel / Multifunction screen	Colour : Copper	Colour : Red	Colour : Blue
Multi-point massage (*)	Data not available	Data not available	Data not available
	Amperage : Level 5	Amperage : Level 5	Amperage : Level 5
Ioniser (*)	Data not available	Data not available	Data not available

### 4.1. Activation/deactivation a multi-sensory pack mode

#### 4.1.1. Activation

A multi-sensory pack mode is activated in 2 stages :

- A press on the multi-sensory pack function button on the multifunction control panel
- Selection of the multi-sensory pack mode via the multifunction touch screen

The activation of a multi-sensory pack mode changes the colour of the multifunction touch screen in accordance with the mode selected.

**N.B. :** The selection of a multi-sensory pack mode deactivates the current mode.

#### 4.1.2. Deactivation

A multisensory pack mode is deactivated via the multifunction touch screen, a visual return confirms the taking into account of this deactivation.

When the user deactivates a mode of the multi-sensory pack, the parameters which make it up re-assume their initial state, before activation.

### 4.2. Configuration, memorisation and resetting of a multi-sensory pack mode

The user can change the setting specific to each component of a multi-sensory pack mode via the multifunction touch screen.

**N.B. :** A manual setting imposed by the customer always takes priority over a setting defined by a dynamic mode or a multi-sensory mode.

When changing the setting of one or more components, the multi-sensory pack function suggests that the user memorises it by means of a long press on the mode chosen, on condition that this setting is authorised by the manufacturer.

When a multi-sensory pack mode is activated, the new configuration will be applied to the modified components

immediately.

Resetting a multi-sensory pack mode allows the user to restore the original configuration of the mode.