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SmartGas 2

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Contents

1.	About SmartGas 2	3
2.	Warning light	3
3.	OEM Fault messages	4
4.	Maintenance	4
5.	Configuration and location components	5
6.	Selecting throttle control	6
7.	Gas-brake security	7
8.	Manufacturer	8
9.	Installer	8

7. Gas-brake security

Refer to chapter 5 to see how this is configured in your vehicle.

As soon as the brake is operated, SmartGas 2 gas will return the throttle to the idle position. The throttle will only respond after the brakes are released and the throttle control has been in the idle position.

Rapid changes from brake to gas may lead to unwanted throttle release. Therefore, the throttle control does not have to return to the idle position when the simultaneous operation of gas and brake was shorter than a pre-set time. By default, this 'Overlap time' is set to 0.3 seconds. The installation company may change this time if you are frequently experiencing discomfort from unintended throttle release.

6. Selecting throttle control

Refer to chapter 5 to see how this is configured in your vehicle.

First operated:

After turning on the ignition will SmartGas 2 respond to the throttle control that is used first. The non-selected throttle control will be ignored.

If by mistake the wrong throttle control was selected, switch the ignition off and turn it on after five seconds. A new selection can be made.

Selection follows SmartBrake:

When SmartGas 2 is installed in a vehicle that also has SmartBrake installed, the selection method may be connected to the SmartBrake status. SmartGas 2 will react to the first operated throttle control but will switch to the original pedal as soon as the SmartBrake is put in the sleep mode with the push button.

Switch:

SmartGas 2 may be equipped with a selector switch. In this case SmartGas 2 always reacts to the throttle control that is selected with the switch.

The selection switch makes it possible to switch during a drive. All connected throttle controls must be put in the idle position before the new selection takes effect.

1. About SmartGas 2

SmartGas 2 enables using an alternative input device to control the throttle. The system simulates the signals of the original electronic gas pedal making the vehicle think the original pedal is being operated.

The alternative control could be a rocker pedal, a knee-gas, gas/brake slide or something customer specific.

While using the alternative control, the vehicle won't respond to the original gas pedal. The alternative control will be ignored while the original pedal is selected.

Depending on the kind of alternative control, a gas-brake security can be active. Refer to chapter 5 to see how this is configured in your vehicle. The gas-brake security works as follows:

When the brake is operated, the throttle output will return to idle. The throttle will respond again after the brakes are released and the throttle control has returned to the idle position.

The system is equipped with an orange warning light. The warning light indicates system faults to the driver.

2. Warning light

The warning light always lights up when the ignition is switched on. Check if the light is on.

If the gas-brake security is active in your vehicle, the light will go off when the brake is actuated once. The brake signal is required to release the throttle while braking.

If the gas-brake security is not active, the light will go off automatically after 3 seconds.

The warning light also lights up when the system detects a fault. Depending on the nature of the fault the throttle still reacts as usual, restricted or not at all.

Contact the installation company if the light is not on after turning on the ignition or when it's on while driving.

3. OEM fault messages

SmartGas 2 is connected between the original gas pedal and the engine management system. Faults in the output signals of SmartGas 2 could lead to fault messages of the original engine management system. Contact the installation company to investigate the nature of the fault.

The car dealer can relatively easily restore the connection between the gas pedal and engine management system to the original state. Then it can be determined if the fault is caused by SmartGas 2 or a fault in the OEM electronics.

When the vehicle displays an OEM fault message, inform your dealer of the presence of SmartGas 2. It is better to contact the installation company.

4. Maintenance

SmartGas 2 is maintenance free.

5. Configuration and location components

Several settings can influence the SmartGas 2 behaviour. The installation company can fill in how the SmartGas 2 in your vehicle is configured.

Gas-brake security active:

Active Not active

Selection method

First operated Switch

Selection follows SmartBrake:

Yes No

When a failure occurs it could be convenient to be able to tell roadside assistance where the parts of SmartGas 2 are mounted. The installation company can write it down below:

Part

Location

+30 fuse (5A)

+15 fuse (5A)

Control unit

Plugs to restore original
connection to gas pedal