

Technical Service Bulletin



46 Engine cannot be switched off if ABS warning on

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Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7	2012-2015	All	Not Applicable
A8	2011-2015	All	Not Applicable

Condition

Customer may report that the engine cannot be switched off with warnings on in the instrument cluster (e.g., ABS/ESP).

Technical Background

The following scenarios are examples of situations in which it may not be possible to turn off the ignition while the vehicle is in Park and the foot brake is applied.

Scenario 1

In case of loss of speed signal due to control module failure, it may not be possible to switch off the ignition by only pressing "START ENGINE STOP" (Figure 1) when the vehicle is in Park and foot brake is applied. In this scenario, the ignition can only be switched off with the emergency-off function. The emergency-off function prevents the engine from being turned off if the "START ENGINE STOP" button is mistakenly pressed while the vehicle is being driven.

The ABS control unit establishes a speed signal. The speed signal determines whether the vehicle is moving or standing still. For example, if no speed signal is present and a standstill cannot be recognized, the ignition can only be switched off with the emergency-off function (which is activated at speeds below 6mph (10km/h) when the "START ENGINE STOP" button is held down and the brake pedal is pressed simultaneously).



Figure 1. "START ENGINE STOP" button in center console.

Scenario 2

In winter, the drive wheels may operate with different revolutions for some time because of a constant slip. The ABS control unit can interpret this as implausible wheel speed and deactivate the ABS, even though there may not be a system error.

After the ignition is switched off and the vehicle is restarted, the system is fully active again. Because of the temporary ABS deactivation and missing speed signal, the ignition can only be switched off with the emergency-off function (which is activated at speeds below 6mph (10km/h) when the "START ENGINE STOP" button is held down and the brake pedal is pressed simultaneously). This is a normal system function.

Production Solution

Not applicable.

Service

1. Diagnose vehicle according to the DTCs.
2. Explain the *Technical Background* to the customer, and explain that the emergency-off function is a safety feature.

Warranty

This TSB is informational only and is not applicable to any Audi warranty.

Additional Information

All parts and service references provided in this TSB (2037761) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.