



IB BRAKE-BY-WIRE SYSTEM – PREFLIGHT CHECK

MODEL

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|----------------------------------|--------------|----------------------------|----------------------|
| G05 (X5 Sports Activity Vehicle) | G07 (X7 SAV) | G14 (8 Series Convertible) | G15 (8 Series Coupe) |
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SITUATION

When starting a vehicle or driving off, customers may complain of “no brake assist”, or “hard brake pedal”. Additionally, some brake warning lights may illuminate in the instrument cluster (aka Kombi).

CAUSE

The IB (Integrated Brakes) initialization routine (“pre-flight check”) before engine start-up has been interrupted by pressing the brake pedal. In such a case, the brake system enters a “fail-safe” mode, without brake assist available. As a result, the customer feels a “hard brake pedal” when starting off.

INFORMATION

The IB Brake-by-Wire system must complete its wake-up procedure before an engine start-up. This initialization process is started when the vehicle is woken up by-

- the remote key “unlocking” signal
- proximity unlocking
- opening a door handle

The process is normally completed before the customer presses the brake pedal and the Start-Stop button to start the engine.

- Duration: approximately 2-3 seconds

In rare situations when the complete vehicle and its brake system are in sleep mode, the customer could conceivably first press the brake pedal when the IB system is still in the sleep mode.

- vehicle is parked in a garage with the door open
- customer is seating inside a vehicle for a long time without using accessories

This interrupts the IB wake-up procedure, resulting in “no assist” condition. Some brake warning lights are thereby illuminated in the Kombi.

When the brake pedal is released, the brake system switches to a normal operating mode after the self-test is completed. This also turns off the warning lights.

PROCEDURE

Please inform customers about-

- the operation of the IB system
- the need to fully complete the “Brakes Pre-Flight Check” before starting to drive

In case a customer induces such a brake self-test interruption, she/he should be advised to-

- keep the transmission in the Park position
- release the brake pedal

This enables the IB self-test to be completed (after approximately 2-3 seconds), and the customer may continue driving off with a fully functioning brake system.

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