



# Technical Service Bulletin

## 90 Audi pre sense warning, warning jolt, and/or brake engagement (MQB/MEB)

90 23 54 2069662/2 November 15, 2023. Supersedes Technical Service Bulletin Group 90 number 23-12 dated March 8, 2023 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A3, S3, RS 3, Q4 e-tron, and Q4 Sportback e-tron	2022 – 2025	All	Not Applicable

## Condition

REVISION HISTORY	
Date	Purpose
-	Revised header (Add MY25)
03/08/2023	Initial publication

### Customer states:

The customer complains that Audi pre sense front intervened for no reason:

- Audi pre sense front warning.
- and/or
- Audi pre sense front warning jolt.
- and/or
- Audi pre sense front emergency braking.

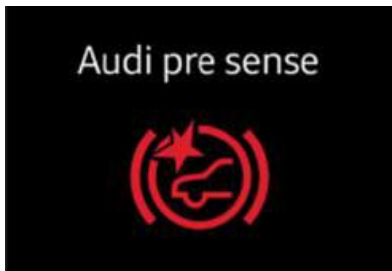


Figure 1: Pre-sense message on the instrument cluster.

### Workshop findings:

The complaint cannot be reproduced during a road test.

## Technical Background



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Observe the safety instructions and the limits of the supporting systems, sensors and cameras (refer to the owner's manual and applicable self-study programs [SSP 680: Audi A3]).

## Production Solution

Not applicable.

## Service

Ask the customer the following questions and note them in the claim comments:

- When did the Audi pre sense front intervention take place? [day, month and year]
- Was the red Audi pre sense symbol displayed in the instrument cluster during the complaint? [yes/no]
- Was a warning tone issued at the same time that the red Audi pre sense symbol was displayed? [yes/no]
- Were the hazard warning lights switched on or the side windows closed at the same time? [yes/no]

Perform the **Audi pre sense test program**. The test program can be found under:

*Test plan > Select self-test > Body > Electrical system > 01 - On Board Diagnostic capable systems > 0013 - Control Module for Adaptive Cruise Control -J428- > 0013 - Technical Service Bulletin (TSB) > Audi pre sense*

The test program asks you to enter the date of the customer complaint.

The test program checks whether Audi pre sense front interventions took place in the period between three days before and three days after the date entered.

At the end the program provides a list of the Audi pre sense front interventions during this period.

- **Audi pre sense warning**

If the vehicle approaches a vehicle travelling in front or a stationary vehicle in a critical situation, the instrument cluster can provide the driver with visual and acoustic warnings within certain limits.

- **Audi pre sense warning jolt**

If the driver does not respond to the warnings, the ABS control unit J104 issues an urgent warning with a jolt. The warning jolt is a very short, clearly noticeable application of the brakes that does not slow down the vehicle. It is intended to bring the driver's attention back to the traffic situation and to signal that an immediate reaction is necessary to prevent a collision.

- **Driver-triggered emergency braking**

When the driver applies the brakes, Audi pre sense front calculates whether the driver is braking sufficiently to prevent a collision. If this is not the case, the necessary braking performance is increased according to the situation up to the strength required to bring the vehicle to a standstill.

- **Automatic partial braking (preliminary stage)**

If the driver does not respond to the warnings, an urgent warning is issued in the form of a jolt. The warning jolt is a very short, clearly noticeable application of the brakes that does not slow down the vehicle. It is intended to



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bring the driver's attention back to the traffic situation and to signal that an immediate reaction is necessary to prevent a collision.

- **Automatic partial braking (main stage)**

Emergency braking is triggered. In situations where a collision cannot be avoided, additional support is provided to the driver in the form of automatic braking to bring the vehicle to a standstill. In this case, the front assist applies the maximum braking force.

- **Swerve support**

The swerve assist is active at speeds above 19mph. If a collision warning is required, the system performs a brake jolt as a warning. The system supports the driver by providing a small amount of steering torque (max. 2 Nm) to correct the steering angle/assist with changing lane. The systems used for the swerve assist are: front assist, ACC and lane assist.

- **Brake dead time minimization**

If a hazardous situation is identified, the hydraulic brake system is pre-charged and a slight jolt is noticeable.

- **Turn-off function (turn assist)**

Emergency braking may be initiated during a left turn at speeds of up to 9mph. The function can prevent a frontal collision with an oncoming vehicle when turning off.

**Please note that only the last four events in each category are stored.**

The **Audi pre sense test program** must only be performed **once** per complaint. As an exception to this, if the customer specifies several times when the complaint occurred, the **Audi pre sense test program** may be performed **a maximum of three times for the complaint**.

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li> </ul>		
<b>Service Number:</b>	9163		
<b>Damage Code:</b>	0039		
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on the diagnostic protocol (Max 30 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	0 TU



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<b>Claim Comment:</b>	As per TSB 2069662/2
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All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

## Additional Information

More information on this system can be found in the following resources:

- SSP: 680, Audi A3
- TSB 2058077: 90 Audi pre sense warning, warning jolt, and/or brake engagement (MLB)

All part and service references provided in this TSB (**2069662**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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