

Technical Service Bulletin

90 Audi virtual cockpit: speedometer needle flickers while driving.

90 23 64 2072514/1 December 21, 2023.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, A8, Q7, and Q8	2019	All	Virtual Cockpit

Condition

Customer states: The red needle of the speedometer in the Audi virtual cockpit flickers while driving (yellow arrow Figure 1).

Workshop findings: The flickering can be seen in both the standard view (large speedometer) and the extended view (small speedometer).

- Flickering does not occur when the vehicle is stationary.
- The correct speed is indicated.
- The red needle in the RPM gauge does not flicker.



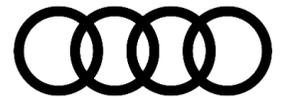
Figure 1: Speedometer needle in instrument cluster flickers

Technical Background

Software issue in Audi virtual cockpit.

Production Solution

New software in production.



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Service

This TSB replaces Pending Service Solution (PSS) TSB 2071329/1 90 Audi Virtual cockpit speedometer needle flickers while driving.

SVM Update Instructions



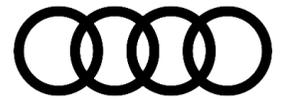
Always use DoIP when flashing a control module via ODIS in supported vehicles. To Activate DoIP, select Administration>>General>>GFF Process>>DoIP communication>>Only allow DoIP communication. This setting will automatically reset when the diagnostic session is ended. You can tell if DoIP is active by observing a red LED on the VAS 6154(A)

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions.*
2. Update the Audi virtual cockpit -J285- (diagnostic address 0017) using the SD card and SVM code as listed in the table below.
3. Start the update on the workshop tester by selecting “flash” and entering the specified SVM code. When the following (or similar) appears while you are running the program: “... please insert update medium with the following part number...”, insert the USB stick into the USB slot in the vehicle which is suitable for data transmission.
4. If the message "...Hold the vehicle key to the transponder..." is shown, place the vehicle key so that it makes full surface contact against the marking provided in the center console until the Audi virtual cockpit shows that the update process has started, and keep the key in this position until the update process is completed

Model year	Diagnostic address	Old Software Version	New Software Version (or higher)	SD creator part number	SVM Code Input
2019	0017	0151-0158	0159	4N0 906 961 BF	17A043

Warranty

Claim Type:	<ul style="list-style-type: none"> • 110 up to 48 Months/50,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.
Service Number:	9025
Damage Code:	0039



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Labor Operations:	Software Update (Includes checking for DTCs)	0151 0060	Time stated on the diagnostic protocol (Max 100 TU)
Diagnostic Time:	GFF	No allowance	0 TU (included above)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	10 TU
Claim Comment:	As per TSB 2072514/1		

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.

Required Parts and Tools

Model	SD Card	Quantity
4N0 906 961 BE	Download from SD creator (MY 2018)	01 (Shop tool)
4N0 906 961 BF	Download from SD creator (MY 2019)	01 (Shop tool)

Additional Information

The following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2011732: *00 Software Version Management (SVM), operating instructions.*
- TSB 2047812: *00 SD Creator: how to set up and use the SD Creator for obtaining vehicle software updates via the MirrorServer.*

All part and service references provided in this TSB (**2072514**) 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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