

Condition

Model(s)	Year(s)	VIN Range	Vehicle Specific Equipment
All Audi vehicles	2007 – 2027	All	Not applicable

REVISION HISTORY		
Revision	Date	Purpose
6	-	Revised header (Updated for market visibility)
5	08/19/2025	Revised <i>Service</i> (Updated location of required software)
4	07/10/2025	Revised attachments (Included attachments) Revised Production Solution (updated resource information)

Customer states:

- Noise or vibration complaints.

Workshop findings:

- The concern can be duplicated but the root cause is not easily identified.



WARNINGS:

Using application programs when driving can be distracting. If the driver is distracted, this can lead to accidents and injuries.

Observe the road traffic regulations in your country. They have priority over any driving instructions.

Always perform a road test with a second person who operates the test equipment.

Make sure that test equipment in the vehicle does not distract the driver.

Danger due to the transport of unsecured test equipment.

If test equipment is transported unsecured or in the range of airbags, this could cause injuries in certain maneuvers or in the event of an accident.

Make sure that the test equipment is secured properly.

Do not transport test equipment in areas in which airbags inflate.

If possible, use test equipment on the rear seat bench. If there is no rear seat bench, the test equipment must only be readable by the passenger and must be secured so that it can only be operated by the passenger. Move the passenger seat as far back as possible.

<p>Using the application programs while driving can cause distraction from events in traffic.</p> <p>Accidents and injury may occur if the driver is distracted.</p> <p>Adhere to the traffic laws in your country. These take precedence over any instructions for driving.</p> <p>Always perform a test drive with a second person who can operate test and measuring devices.</p> <p>Transport testing and measuring devices in the vehicle in such a way that they do not distract the driver while driving.</p>	<p>Danger from the transportation of unsecured testing and measuring devices.</p> <p>If testing and measuring devices are transported in an unsecured manner or get close to the airbags, it may lead to injuries in the event of an accident or certain driving maneuvers.</p> <p>Ensure that testing and measuring devices are in order.</p> <p>Do not transport testing and measuring devices within reach of the airbags.</p> <p>Use the testing and measuring devices on the back seat when possible. If there is no back seat, testing and measuring devices may only be readable for the front passenger and must be securely fastened so that they can only be operated by the passenger. The front passenger seat must be put back to the furthest position.</p>
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Technical Background

There are different techniques and options to analyze noise or vibrations. This TSB describes the measurement instructions and much more about the VAS 611 015 PICO NVH tool.

Production Solution

The following information is attached to this TSB:

- The analysis guidelines for using the PICO-NVH tool for noise analysis.
- The analysis guidelines for the measuring points on the transmission.
- Audi e-tron GT measurement positions for standard powertrain measurements.
- Audi e-tron measurement positions for standard powertrain measurements.
- Audi Q8 e-tron PU measurement positions for standard powertrain measurements.
- Audi A5 (FU) & Q5 (GU) measurement positions for standard powertrain measurements.
- Audi Q6 & A6 e-tron measurement positions for standard powertrain measurements.
- Audi checklist for vehicle noise complaints.
- Notes on procurement of and support for VAS 611 015 (see Parts information).
- Software download/support/information: website: <https://vas.picoauto.com/> (password: Quattr#8)
- A description is included in the attachments (password and software).
- Instructions for starting the ODB adapter VAS6154 to record the engine speed and road speed during the noise recording (an additional PassThru driver (J2534) must also be installed to connect the diagnostic interface VAS 6154 to the PICO NVH tool VAS 611 015 as an OBDII adapter.) The PassThru driver for VAS 6154 and the installation guide are available at: *ELSA 2 Go >> Infomedia Service references >> Software/Hardware Updates >> Search "PICO"*.



Figure 1. Attachments Tab in ElsaPro.

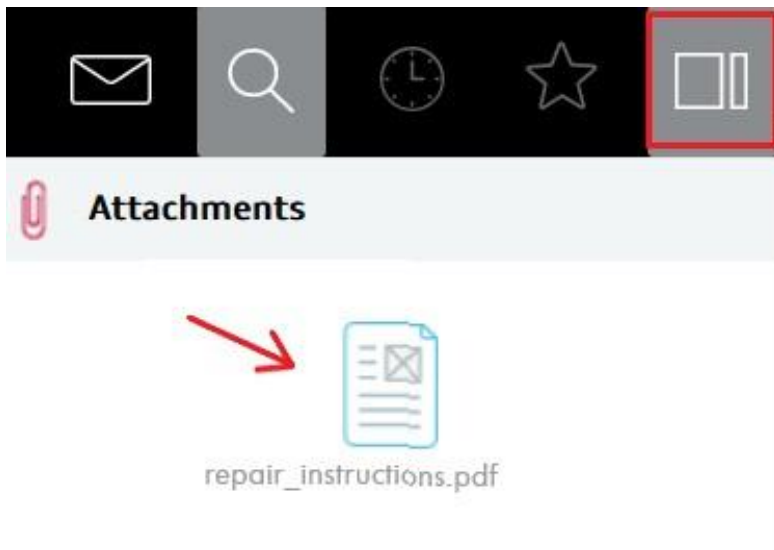


Figure 2. Attachment location in Elsa2Go.

Videos/web-based training courses in AKT:

PICO Tool, Part 1. Identifying noise in and on the vehicle



Figure 3. Log in to the Audi Knowledge Tank and scan this QR code to visit <https://www.knowledgetank.audi/page/detail/type=stv&key=f9180eab-8222-455c-9272-8f343ed7d12c/>

PICO Tool Part 2 Creating Configuration and Measurement



Figure 4. Log in to the Audi Knowledge Tank and scan this QR code to visit <https://www.knowledgetank.audi/page/detail/type=stv&key=01fc5e1a-6c3b-4d4c-836b-348ddcc6c95d/>

PICO Tool, Part 3 Creating Configuration and Measurement



Figure 5. Log in to the Audi Knowledge Tank and scan this QR code to visit <https://www.knowledgetank.audi/page/detail/type=stv&key=779ecd2a-a539-4ea1-9c8b-616018c0a65c/>

Important notes and avoiding common errors – Measurements using the PICO-NVH-Tool VAS611015



Figure 6. Log in to the Audi Knowledge Tank and scan this QR code to visit

<https://www.knowledgetank.audi/page/detail/type=stv&key=e34929d6-7a32-43cb-8afc-646c04b9aea1/>

PICO NVH Diagnosis for Experts



Figure 7. Log in to the Audi Knowledge Tank and scan this QR code to visit

<https://www.knowledgetank.audi/page/detail/type=wbt&key=dc7f99cc-1606-4bd4-97e2-0feeeeaed0335/>

Important note about measurements on Audi e-tron vehicles:

The engine speed/road speed can be read out using the VAS 6145 by selection in the PICO configuration window for the log type “OBD” for all combustion-engine and hybrid models.

The following selection must be made for electric vehicles:

- “Select vehicle type/Audi electric vehicle
 - A6 e-tron
 - Q6 e-tron

- e-tron GT
- Select vehicle type/VAS
 - e-tron GE (only the road speed can be read out on this vehicle)
 - Q4 e-tron (Older models; always rear electric motor speed)
- Log type “OBD”
 - Q4 e-tron (newer models; always rear electric motor speed)

If it is still not possible to establish a connection between VAS 6154 and the PICO diagnostic software, please check the following:

- If you cannot establish a connection to an electric vehicle, check your measurement sequence (PICO & OBD adapter) on another vehicle (e.g. one with a combustion engine).
- Please always install the most recent PICO software for measurements on e-tron vehicles.
- ODIS and other programs which can access VAS 6154 must be closed
- Only one PICO diagnostic software should be opened.
- Additional PassThru driver must be installed (refer to installation guide attached to this TSB)

Service

It is possible to detect the sources of noise and vibrations more precisely via acceleration sensors and/or microphones. Information such as engine speed and vehicle speed, which is required for subsequent analysis, is recorded in addition to the noise recording via the OBD adapter VAS 6154.

The attachments also include a log for measurement and diagnostic drives for support and documentation!!! **This is not compulsory documentation and not relevant for audits!!!**



Audi e-tron vehicles:

Ensure that the newest PICO software version is installed, otherwise a vehicle speed signal cannot be recorded via the on-board diagnosis adapter.

In the PICO software, the setting “EV” must be selected when connecting the on-board diagnosis adapter VAS 6154.

The attached guidelines answer many questions and can be used to provide support and practical instructions on using the VAS 611 015 PICO NVH Tool.

The following is attached to this TSB (Figure 1, 2):

- The Guidelines for acoustic analysis with the Pico NVH kit for noise analysis.
- The analysis guidelines for the measuring points on the transmission.
- Connecting VAS 6154 to PICO NVH tool VAS 611 015.

Required software can be found via ELSA2Go:

- **VAS 611 015:** Audi ELSA2Go >> Infomedia >> Software/Hardware Updates >> enter “VAS611015” into the search box.

- **Software and instructions to connect the VAS 6154 to VAS 611 015 PICO NVH Tool:** *Audi ELSA2Go >> Infomedia >> Software/Hardware Updates >> enter " VAS6154A Connect to VAS611015.zip" into the search box.* (Required for OBD connection for live road speed signal and engine RPM).

Warranty

Claim Type:	<ul style="list-style-type: none"> • If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	Use service number for causal part		
Damage Code:	Use correct damage code for cause		
Labor Operations:	1. Set-up time of noise analysis tool: <ul style="list-style-type: none"> • Attach photos of the sensor positions (at least one photo with vehicle identification number) to the billing Doc-IT. • Photo labelling: e.g. sensor A measurement 1. 	0161 0000	50 TU
	2. Measurement drive (use service number depending on component) <ul style="list-style-type: none"> • Make a note of the mileage before and after the test drive. 	XXXX 0199	Please bill according to the time required. All work carried out must be clearly documented.
	3. Analysis (use service number depending on component) <ul style="list-style-type: none"> • Attach screenshots of the measurement report of the analyzed case to the billing DOC-IT. • End or continue with line 5. 	XXXX 0199	Please bill according to the time required. All work carried out must be clearly documented.
	4. If necessary, time required to reposition noise analysis tool. All work carried out must be documented as follows: <ul style="list-style-type: none"> • Reason why repositioning necessary. • Photos of new sensor positions (labelling: e.g. sensor A measurement 2). 	0161 3199	25 TU
	5. If necessary, another test/measurement drive	Per line 2 above	
	6. If necessary, time required for another analysis/evaluation of measurements.	Per line 3 above	
	7. End or continue with 5.		

Claim Comment:	As per TSB 2070568/6
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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.

Required Parts and Tools

Tool Number	Tool Description
VAS 6154	OBD adapter
VAS 611 015	PICO-NVH tool
VAS 6160/VAS 6150	VAS tester with the current version of ODIS (Windows 10)

Additional Information

All part and service references provided in this TSB (**2070568**) 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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