



# Technical Service Bulletin

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**00 Professional noise analysis with the VAS 611 015 PICO-NVH tool**  
00 23 71 2070568/1 September 7, 2023.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All Audi Vehicles	2007 – 2025	All	Not Applicable

## Condition

### Customer states:

- Noise or vibration complaints.

### Workshop findings:

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

## Technical Background

There are different techniques and options to analyze noises or vibrations. This TSB describes the measurement options using the VAS 611 015 PICO NVH tool.

## Production Solution



### Tip:

#### 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 following 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.

The VAS 611 015 Software can be found at: *Audi ServiceNet >> Workshop Equipment >> Tool Information >> Tool Software Updates*

The software and instructions to connect the VAS 6154 to VAS 611 015 PICO NVH Tool can be found at: *Audi ServiceNet >> Workshop Equipment >> Tool Information >> Tool Software Updates* (Required for OBD connection for live road speed signal and engine RPM)



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## Service

It is possible to detect the sources of noises 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.



Tip:

### 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):

- 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.



Figure 1. Attachments Tab in the repair manual

Required software can be found via Service Net:

- **VAS 611 015:** Audi ServiceNet >> Workshop Equipment >> Tool Information >> Tool Software Updates
- **Software and instructions to connect the VAS 6154 to VAS 611 015 PICO NVH Tool:** Audi ServiceNet >> Workshop Equipment >> Tool Information >> Tool Software Updates (Required for OBD connection for live road speed signal and engine RPM)

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"><li>• 110 up to 48 Months/50,000 Miles.</li><li>• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li></ul>
<b>Service Number:</b>	Use Service Number for the casual part
<b>Damage Code:</b>	Use correct Damage Code for cause



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## 1. Setting-up time (only for the PICO-NVH application)

Model:	Repair operation:	Designation:	Time units:
	01610000	Setting-up time of noise analysis tool	50 TU

- Observe information on predecessors as well as included and excluded items in the repair operations.
- Use the repair operations from APOS for the removal of other components.

### All work carried out must be documented as follows:

- Attach photos of the sensor positions (**at least one photo with vehicle identification number**) to the RO.
- Photo labelling: e.g. sensor A measurement setup 01

## 2. Measurement/test drive

Model:	Repair operation:	Designation:	Time units:
	xxxx0199	Measurement drive (use service number depending on component)	Please bill according to time required. <b>All work carried out must be clearly documented.</b>

Observe information on predecessors as well as included and excluded items in the repair operations.

### All work carried out must be documented as follows:

- Make a note of the mileage before and after the test drive

## 3. Time required for analysis/evaluation of measurements

Model:	Repair operation:	Designation:	Time units:
	xxxx0199	Analysis (use service number depending on component)	Please bill according to time required. <b>All work carried out must be clearly documented.</b>

Observe information on predecessors as well as included and excluded items in the repair operations.

### All work carried out must be documented as follows:

- Keep screenshots of the measurement report of the analysis for the RO.

End or continue with point 5.

## 4. Repositioning measuring technology

Model:	Repair operation:	Designation:	Time units:
	01613199	Time required to reposition noise analysis tool	25 TU



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Observe information on predecessors as well as included and excluded items in the repair operations.

**All work carried out must be documented as follows:**

- Reason why repositioning necessary
- Photos of new sensor positions (labelling: e.g. sensor A measurement setup 02)

**5. Another test/measurement drive**

- As point 2

**6. Time required for another analysis/evaluation of measurements**

- As point 3

**7. End or continue with point 5.**

<b>Claim Comment:</b>	Diagnosis per TSB 2070568/1
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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

- VAS 611 015 VAS PicoScope NVH Kit (Minimum Required Tool)
- VAS 6154, please install the required driver (see attached instructions) on the workshop laptop.

## 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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