

Noise Symptom - Humming from Vehicle Front End: Observe Specified Procedure (SY 117/22)

Change overview:

Release	Date	Change
0	05/05/2023	<ul style="list-style-type: none"> <li>First publication</li> </ul>
1	08/10/2023	<ul style="list-style-type: none"> <li>Split into 2 TIs</li> <li>Model year 2020 to 2021 published</li> </ul>
2	12/15/2023	<ul style="list-style-type: none"> <li>"Required parts" section adapted</li> <li>"Replace cooling fan housing with electric fan, air guide and wheel housing liner lower part" section adapted</li> <li>"Working position and PCSS encryption" section adapted</li> </ul>
3	11/19/2024	<ul style="list-style-type: none"> <li>Addition of information to "Always replace the respective components on the entire vehicle (left and right)"</li> </ul>

Model Line: **Taycan (Y1A / Y1B)**

Model Year: **As of 2020 up to 2021**

Concerns: **Electric fan**

Symptom: Customers complain about droning or humming noise from the front end, even during the charging process.

Cause: This may be caused by foreign matter or dirt in the area of the electric fan and/or between the fan rotor and fan frame.  
Frequent driving on unpaved roads or roads with a gravel or grit surface or on sanded roads (winter) exacerbates the problem.

Remedial Action: A new component status of the electric fan (fan with frame and fan motor cap) as well as the air guides and lower parts of the wheel housing liners is available immediately.  
The new design has additional and larger foreign matter elimination openings on the underside as well as a protective cap to prevent dirt and stones from entering the fan motor.



**Information**

Always replace the respective components on the entire vehicle (left and right) to the new component version.

**Required parts**

Parts Info:

**Required parts:**

<b>Part No.</b>	<b>Designation – Location of use</b>	<b>Number</b>
PAD121203A	⇒ Radiator fan including bracket – left	1 piece
PAD121205A	⇒ Radiator fan including bracket – right	1 piece
PAF912322	⇒ Internal hexagon round-head bolt, M6 x 40 – Cooling fan housing on radiator	2 pieces
PAD121673	⇒ Air duct – left	1 piece
PAD121674	⇒ Air duct – right	1 piece
<b>Only relevant for vehicles with the following equipment (M-No. K8D)</b>		
PAD809957A	⇒ Wheel housing liner lower part – bottom left	1 piece
PAD809958A	⇒ Wheel housing liner lower part – bottom right	1 piece
<b>Only relevant for vehicles with the following equipment (M-No. K8S)</b>		
PAD809957B	⇒ Wheel housing liner lower part – bottom left	1 piece
PAD809958B	⇒ Wheel housing liner lower part – bottom right	1 piece
<b>Only relevant for vehicles with the following equipment (M-No. K8X)</b>		
9J0809957B	⇒ Wheel housing liner lower part – bottom left	1 piece
9J0809958B	⇒ Wheel housing liner lower part – bottom right	1 piece

**Required tools**

Tool:

- **VAS 6959 - Torx screwdriver insert T30**

**Replacing cooling fan housing with electric fan, air guide and wheel housing liner lower part****Information**

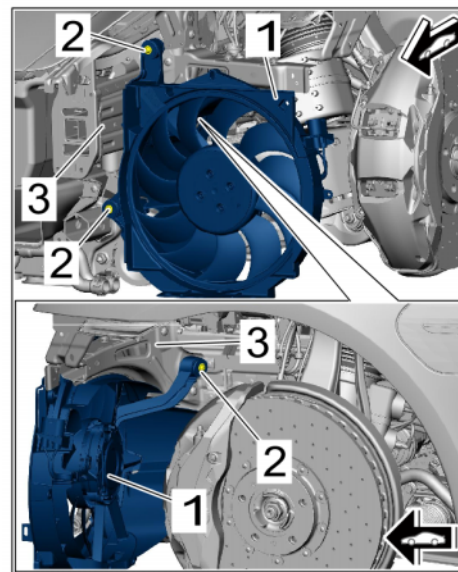
Always replace the respective components on the entire vehicle (left and right) to the new component version.

- Work Procedure: 1    Disconnect the radiator.  
For procedure, see: ⇒ *Workshop Manual '190819 Removing and installing electric fan'* (includes removing and installing air guide and wheel housing liner)
- 2    Loosen condenser.  
For procedure, see: ⇒ *Workshop Manual '875319 Removing and installing condenser fan'* (includes removing and installing air guide and wheel housing liner)

**Information**

The procedure for removing and installing is shown for one side as an example. The procedure for removing and installing for the other side is almost identical.

- 3    Remove cooling fan housing with electric fan ⇒ *Fastening points for cooling fan housing with electric fan -1-*.
- 3.1    Unscrew screws ⇒ *Fastening points for cooling fan housing with electric fan -2-*.
- 3.2    Remove and guide out cooling fan housing with electric fan ⇒ *Fastening points for cooling fan housing with electric fan -1-* from body ⇒ *Fastening points for cooling fan housing with electric fan -3-*.



*Fastening points for cooling fan housing with electric fan*

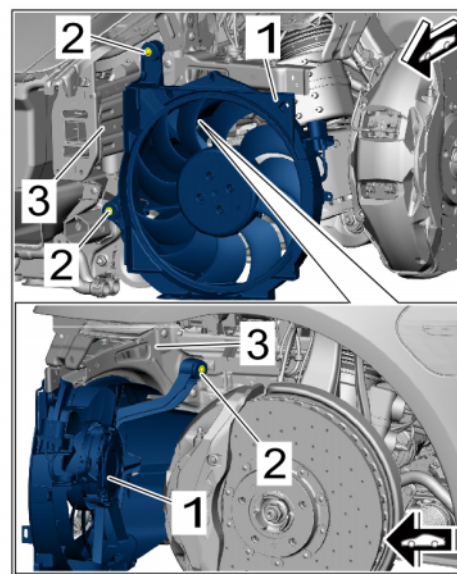
- 4 Fasten **new** rear air guide to the **new** cooling fan housing with electric fan.  
For procedure, see:  
⇒ *Workshop Manual '192419 Removing and installing air guide'*



#### Information

The **original** sleeves, bearings and screws for securing the cooling fan housing must be retained for the **new** cooling fan housing.

- 5 Install **new** cooling fan housing with electric fan ⇒ *Fastening points for cooling fan housing with electric fan -1-*.
- 5.1 Position cooling fan housing with electric fan ⇒ *Fastening points for cooling fan housing with electric fan -1-* in body ⇒ *Fastening points for cooling fan housing with electric fan -3-*.
- 5.2 Screw in screws ⇒ *Fastening points for cooling fan housing with electric fan -2-* and tighten with **Tightening torque 8 Nm (5.9 ftlb.)**.



*Fastening points for cooling fan housing with electric fan*

- 6 Install condenser and **new** wheel housing liner lower part (front, section) on the right.  
For procedure, see: ⇒ *Workshop Manual '875319 Removing and installing condenser fan'* (includes removing and installing air guide and wheel housing liner)
- 7 Install radiator and **new** wheel housing liner lower part (front, section) on the left.  
For procedure, see: ⇒ *Workshop Manual '190819 Removing and installing electric fan'* (includes removing and installing air guide and wheel housing liner)

### Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
19205540	Replacing cooling fan housing	
87535540	Replacing condenser fan housing	
91722550	Programming Surround View camera control unit	
91662652	Programming front corner radar control unit	
94151601	Adjust headlights	
94151600	Adjust headlights	

PCSS encryption:

Location (FES5)	19080	Electric fan
Damage type (SA4)	2018	whirring, buzzing

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