

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"> • First publication
1	09/05/2023	<ul style="list-style-type: none"> • Split into 2 TIs • Model year 2022 published
2	12/15/2023	<ul style="list-style-type: none"> • "Required parts" section adapted • "Replace electric fan and, if necessary, air guide and wheel housing liner lower part" section adapted • "Working position and PCSS encryption" section adapted

Model Line: **Taycan (Y1A / Y1B / Y1C)**

Model Year: **2022**

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**

In the current 2022 model year, the new air ducts and wheel housing liner lower parts have already entered series production. This means that in the case of a vehicle with this customer complaint, which was produced according to the production data listed below, only the electric fans need be replaced.

Date: November 23, 2021

VIN: WPOZZZY1ZNSA72372

Therefore, in the event of a customer complaint on a vehicle from model year 2022, the production data must first be checked and then either

- the electric fans, air ducts and wheel housing liner lower parts must be replaced (for vehicles produced before the production data mentioned) or
- only the electric fans must be replaced (for vehicles produced according to the production data mentioned).

Required parts

Parts Info:

**Information**

For vehicles produced **before November 23, 2021** or vehicle identification number WPOZZZY1ZNSA72372.

Part No.	Designation – Location of use	Number
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
Only relevant for vehicles with the following equipment (M-No. K8D)		
PAD809957A	⇒ Wheel housing liner lower part – bottom left	1 piece
PAD809958A	⇒ Wheel housing liner lower part – bottom right	1 piece

Only relevant for vehicles with the following equipment (M-No. K8S)

PAD809957B	⇒ Wheel housing liner lower part – bottom left	1 piece
PAD809958B	⇒ Wheel housing liner lower part – bottom right	1 piece

Only relevant for vehicles with the following equipment (M-No. K8X)

9J0809957B	⇒ Wheel housing liner lower part – bottom left	1 piece
9J0809958B	⇒ Wheel housing liner lower part – bottom right	1 piece

**Information**

For vehicles produced **after November 23, 2021** or vehicle identification number WPOZZZY1ZNSA72372.

Part No.	Designation – Location of use	Number
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

Required tools

Tool: • **VAS 6959 - Torx screwdriver insert T30**

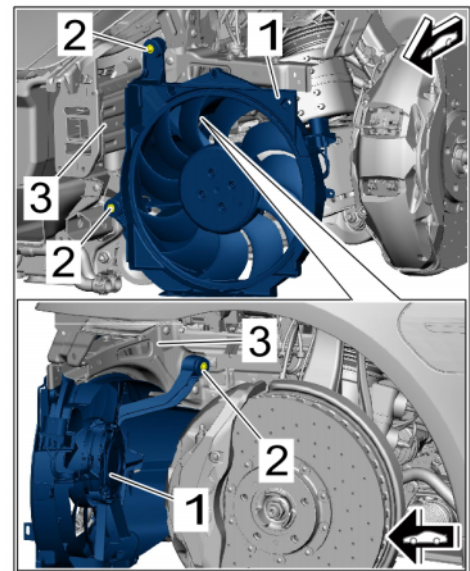
Replacing cooling fan housing with electric fan and, if necessary, air guide and wheel housing liner lower part

- 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 **Only for vehicles produced after November 23, 2021 or with vehicle identification number WPOZZZY1ZNSA72372:**

Remove rear air guide from removed cooling fan housing with electric fan.

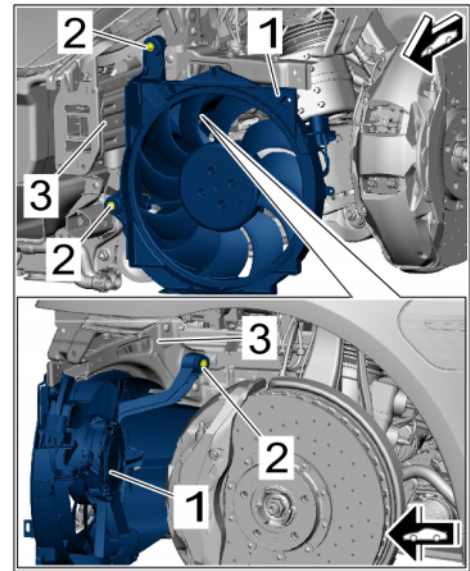
For procedure, see: ⇒ *Workshop Manual '192419 Removing and installing air guide'*

- 5 Fasten 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.

- 6 Install **new** cooling fan housing with electric fan ⇒ *Fastening points for cooling fan housing with electric fan -1-*.
 - 6.1 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-*.
 - 6.2 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

- 7 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)
- 8 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	

APOS	Labor operation	I No.
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

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2023 Porsche Cars North America, Inc.