

Complaint - Loss of Power and Noise From Engine Compartment: Replacing Both Exhaust Turbochargers With Modified Type of Turbochargers (62/20)

Vehicle Type: **Cayenne Turbo/Cayenne Turbo S Hybrid (9YA/9YB)**

Model Year: **As of 2019 up to 2020**

Subject: **Turbocharger**

Information: The vehicle loses power and noises (whistling) can be heard from the engine compartment. The Check Engine warning light flashes at times or lights up permanently. This may be caused by stiff or blocked exhaust turbocharger shafts.

Remedial Action: Check the condition of the exhaust turbochargers and replace both exhaust turbochargers with a modified type of turbochargers if necessary.

Date of Introduction: Modified components have been used since July 30, 2018.

Vehicle Type: **Panamera Turbo/Panamera Turbo S Hybrid (971)**

Model Year: **As of 2017 up to 2020**

Subject: **Turbocharger**

Information: The vehicle loses power and noises (whistling) can be heard from the engine compartment. The Check Engine warning light flashes at times or lights up permanently. This may be caused by stiff or blocked exhaust turbocharger shafts.

Remedial Action: Check the condition of the exhaust turbochargers and replace both exhaust turbochargers with a modified type of turbochargers if necessary.

Date of Introduction: Modified components have been used since July 30, 2018.

Required parts and materials

Parts:	Part No.	Designation - Use	Qty.
	PAB145701B	⇒ Exhaust turbocharger - Cylinders 1-4	1 ea.
	PAB145702B	⇒ Exhaust turbocharger - Cylinders 5-8	1 ea.
	9A714503900	⇒ Seal - Exhaust manifold	2 ea.
	9A725372502	⇒ Clamp - Exhaust manifold	2 ea.
	9A725311500	⇒ Seal - Primary catalytic converter	2 ea.
	PAB25372500	⇒ Clamp - Primary catalytic converter	2 ea.
	PAB25311500	⇒ Seal - Catalytic converter	1 ea.
	N 91130802	⇒ Hexagon collar nut - Catalytic converter	3 ea.
	9A700653700	⇒ O-ring - Coolant line	8 ea.
	N 90925001	⇒ O-ring - Oil return line	1 ea.
	9A700875500	⇒ O-ring - Oil return line	2 ea.
	N 90925002	⇒ O-ring - Oil return line	1 ea.
	9A700653700	⇒ O-ring - Oil supply line	2 ea.
	9A712905600	⇒ Seal - Intake manifold	2 ea.

Materials: **Required materials** (usually already available at the Porsche dealer):

Part No.	Designation - Use	Qty.
00004320593	⇒ Lubricating grease - O-rings	100g tube ¹⁾
00004330537	⇒ Lubricating grease - Oxygen sensors	60 g tube ²⁾

¹⁾ approx. 10 grams required per vehicle.

²⁾ approx. 2 grams required per vehicle.

Required parts and materials

Parts:	Part No.	Designation	Qty.
		- Use	
	PAB145704B	⇒ Exhaust turbocharger	1 ea.
		- Cylinders 1-4	
	PAB145703B	⇒ Exhaust turbocharger	1 ea.
		- Cylinders 5-8	
	9A714503900	⇒ Seal	2 ea.
		- Exhaust manifold	
	9A725372502	⇒ Clamp	2 ea.
		- Exhaust manifold	
	9A7253115B	⇒ Seal	2 ea.
		- Primary catalytic converter	
	9A725372500	⇒ Clamp	2 ea.
		- Primary catalytic converter	
	5Q0253115B	⇒ Seal	1 ea.
		- Catalytic converter	
	PAB253725	⇒ Clamp	1 ea.
		- Catalytic converter	
	9A700653700	⇒ O-ring	8 ea.
		- Coolant line	
	N 90925001	⇒ O-ring	1 ea.
		- Oil return line	
	9A700875500	⇒ O-ring	2 ea.
		- Oil return line	
	N 90925002	⇒ O-ring	1 ea.
		- Oil return line	
	9A700653700	⇒ O-ring	2 ea.
		- Oil supply line	
	N 90344501	⇒ O-ring	2 ea.
		- Pressure pipe	
	9A712905600	⇒ Seal	2 ea.
		- Intake manifold	
	N 90440003	⇒ Hexagon-head bolt	2 ea.
		- Strut	
	N 10261311	⇒ Hexagon nut	2 ea.
		- Strut	

Materials: **Required materials** (usually already available at the Porsche dealer):

Part No.	Designation - Use	Qty.
00004320593	⇒ Lubricating grease - O-rings	100g tube ¹⁾
00004330537	⇒ Lubricating grease - Oxygen sensors	60 g tube ²⁾

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²⁾ approx. 2 grams required per vehicle.

Preparatory work

Work Procedure: 1 Remove intake pipes, see ⇒ *Workshop Manual '212419 Removing and installing intake manifold (V8 biturbo)'*.

Checking and replacing exhaust turbochargers

Work Procedure: 1 Check the condition of the exhaust turbochargers: Turn the compressor wheel with your hand. If it is stiff or blocked, replace **both** exhaust turbochargers, see ⇒ *Workshop Manual '213019 Removing and installing turbocharger (V8 biturbo)'*.

Concluding work

Work Procedure: 1 Install intake pipes, see ⇒ *Workshop Manual '212419 Removing and installing intake manifold (V8 biturbo)'*.

Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
21300200	Checking turbochargers	
21305531	Replacing left turbocharger	
21305532	Replacing right turbocharger	
21305533	Replacing left turbocharger (with particle filter)	
21305534	Replacing right turbocharger (with particle filter)	

PQIS coding:

Location (FES5)	21300	Turbocharger
Damage type (SA4)	1711	Stiff, stuck, not enough play

Part Info:	Part No.	Designation	Qty.
		- Use	
	PAB145701B	⇒ Exhaust turbocharger	1 ea.
		- Cylinders 1-4	
	PAB145702B	⇒ Exhaust turbocharger	1 ea.
		- Cylinders 5-8	
	9A714503900	⇒ Seal	2 ea.
		- Exhaust manifold	
	9A725372502	⇒ Clamp	2 ea.
		- Exhaust manifold	
	9A725311500	⇒ Seal	2 ea.
		- Primary catalytic converter	
	PAB25372500	⇒ Clamp	2 ea.
		- Primary catalytic converter	
	PAB25311500	⇒ Seal	1 ea.
		- Catalytic converter	
	N 91130802	⇒ Hexagon collar nut	3 ea.
		- Catalytic converter	
	9A700653700	⇒ O-ring	8 ea.
		- Coolant line	
	N 90925001	⇒ O-ring	1 ea.
		- Oil return line	
	9A700875500	⇒ O-ring	2 ea.
		- Oil return line	
	N 90925002	⇒ O-ring	1 ea.
		- Oil return line	
	9A700653700	⇒ O-ring	2 ea.
		- Oil supply line	
	9A712905600	⇒ Seal	2 ea.
		- Intake manifold	
	00004320593	⇒ Lubricating grease	approx. 10 grams
		- O-rings	
	00004330537	⇒ Lubricating grease	approx. 2 grams
		- Oxygen sensors	

References: ⇒ *Workshop Manual '212419 Removing and installing intake manifold (V8 biturbo)'*
 ⇒ *Workshop Manual '213019 Removing and installing turbocharger (V8 biturbo)'*

Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
21300200	Checking turbochargers	
21305531	Replacing left turbocharger	
21305532	Replacing right turbocharger	

PQIS coding:

Location (FES5)	21300	Turbocharger
Damage type (SA4)	1711	Stiff, stuck, not enough play

Parts Info:	Part No.	Designation - Use	Qty.
	PAB145704B	⇒ Exhaust turbocharger - Cylinders 1-4	1 ea.
	PAB145703B	⇒ Exhaust turbocharger - Cylinders 5-8	1 ea.
	9A714503900	⇒ Seal - Exhaust manifold	2 ea.
	9A725372502	⇒ Clamp - Exhaust manifold	2 ea.
	9A7253115B	⇒ Seal - Primary catalytic converter	2 ea.
	9A725372500	⇒ Clamp - Primary catalytic converter	2 ea.
	5Q0253115B	⇒ Seal - Catalytic converter	1 ea.
	PAB253725	⇒ Clamp - Catalytic converter	1 ea.
	9A700653700	⇒ O-ring - Coolant line	8 ea.
	N 90925001	⇒ O-ring - Oil return line	1 ea.
	9A700875500	⇒ O-ring - Oil return line	2 ea.
	N 90925002	⇒ O-ring - Oil return line	1 ea.
	9A700653700	⇒ O-ring - Oil supply line	2 ea.
	N 90344501	⇒ O-ring - Pressure pipe	2 ea.
	9A712905600	⇒ Seal - Intake manifold	2 ea.

N 90440003	⇒ Hexagon-head bolt – Strut	2 ea.
N 10261311	⇒ Hexagon nut – Strut	2 ea.
00004320593	⇒ Lubricating grease – O-rings	approx. 10 grams
00004330537	⇒ Lubricating grease – Oxygen sensors	approx. 2 grams

References: ⇒ *Workshop Manual '212419 Removing and installing intake manifold (V8 biturbo)'*
 ⇒ *Workshop Manual '213019 Removing and installing turbocharger (V8 biturbo)'*

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