

Complaint - Power Loss in Conjunction with Turbocharger Damage: Replacing Turbocharger and Exhaust Manifold (121/20)

Revision: This bulletin replaces bulletin 121/30, dated August 19, 2020.

Model Year: **2020**

Model Line: **911 Carrera (992)**

Subject: **Turbocharger**

Information: The customer complains about the vehicle's loss of power and/or the message "Reduced engine power" in the instrument cluster.

A turbocharger with a damaged or blocked turbine wheel is diagnosed in the workshop.



Information

If this fault type occurs, the affected turbocharger **and** the associated exhaust manifold must be replaced.

Material analyses have shown that the defects on the turbochargers are caused by loose particles from the exhaust manifold.

Remedial Action: Replace turbocharger **and** exhaust manifold, see

⇒ *Workshop Manual '213019 Removing and installing turbocharger'* and

⇒ *Workshop Manual '261019 Removing and installing exhaust manifold'*

Required parts and materials

Parts Info:	Part No.	Designation	Qty.
		- Use	
	OPB145701L	⇒ Turbocharger (I no. D5S) - cylinders 1-3	1 ea.
		or	
	OPB145701K	⇒ Turbocharger (I no. DW1) - cylinders 1-3	1 ea.
		or	
	OPB251215	⇒ Exhaust manifold - cylinders 1-3	1 ea.
		or	
	OPB145702L	⇒ Turbocharger (I no. D5S) - cylinders 4-6	1 ea.

	or	
OPB145702K	⇒ Turbocharger (I no. DW1) - cylinders 4-6	1 ea.
	or	
OPB251216	⇒ Exhaust manifold - cylinders 4-6	1 ea.
	Additional parts required	
OPB145039	⇒ Seal - Exhaust manifold	1 ea.
OPB145039A	⇒ Seal - Exhaust manifold	1 ea.
PAF007634	⇒ Hexagon flange nut - exhaust manifold	4 ea.
9P1253725A	⇒ Clamp - turbocharger	1 ea.
9A725311500	⇒ Seal - turbocharger	1 ea.
PAF008276	⇒ O-ring - oil line	6 ea.
PAF008288	⇒ O-ring - oil line	6 ea.
PAF008288	⇒ O-ring - vent line	2 ea.
PAF008955	⇒ O-ring - intake pipe	1 ea.
992129260	⇒ Hose clamp - intake pipe	1 ea.
N 10544401	⇒ Hose clamp - intake pipe	1 ea.
PAF008282	⇒ O-ring - coolant hose	1 ea.
PAF00828100	⇒ O-ring - coolant hose	1 ea.
PAF013814	⇒ Sealing ring - drain plug	1 ea.

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

Part No.	Designation	Qty.
	- Use	
00004320593	⇒ Lubricating grease - O-rings	100 g/ 3.5 oz tube ¹⁾
00004330537	⇒ Lubricating grease - Oxygen sensors	60 g/ 2 oz tube ²⁾

00004330515	⇒ Coolant additive	20-liter/ 676 fl oz container ³⁾
00004321093	⇒ ExxonMobil 1 0W-40 ESP X 3 engine oil	200-liter/ 6,763 fl oz container ³⁾

1) approx. 10 grams/ 0.35 oz required per vehicle.

2) approx. 2 grams/ 0.07 oz required per vehicle.

3) approx. 0.5 liter/ 16 fl oz required per vehicle.

Invoicing

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

APOS	Labour operation	I No.
21305610	Replacing turbocharger	
21305620	Replacing turbocharger (Turbo S)	

PQIS coding:

Location (FES5)	21300	Turbocharger
Damage type (SA4)	1713	seized

Parts Info:	Part No.	Designation	Qty.
		- Use	
	OPB145701L	Turbocharger (I no. D5S) - cylinders 1-3	1 ea.
		or	
	OPB145701K	Turbocharger (I no. DW1) - cylinders 1-3	1 ea.
		or	
	OPB251215	Exhaust manifold - cylinders 1-3	1 ea.
		or	
	OPB145702L	Turbocharger (I no. D5S) - cylinders 4-6	1 ea.
		or	
	OPB145702K	Turbocharger (I no. DW1) - cylinders 4-6	1 ea.
		or	

OPB251216	Exhaust manifold – cylinders 4-6	1 ea.
	Additional parts required	
OPB145039	Seal – Exhaust manifold	1 ea.
OPB145039A	Seal – Exhaust manifold	1 ea.
PAF007634	Hexagon flange nut – exhaust manifold	4 ea.
9P1253725A	Clamp – turbocharger	1 ea.
9A725311500	Seal – turbocharger	1 ea.
PAF008276	O-ring – oil line	6 ea.
PAF008288	O-ring – oil line	6 ea.
PAF008288	O-ring – vent line	2 ea.
PAF008955	⇒ O-ring – intake pipe	1 ea.
992129260	Hose clamp – intake pipe	1 ea.
N 10544401	Hose clamp – intake pipe	1 ea.
PAF008282	O-ring – coolant hose	1 ea.
PAF00828100	O-ring – coolant hose	1 ea.
PAF013814	Sealing ring – drain plug	1 ea.
00004320593	⇒ Lubricating grease – O-rings	approx. 10 grams/ 0.35 oz
00004330537	⇒ Lubricating grease – Oxygen sensors	approx. 2 grams/ 0.07 oz
00004330515	Coolant additive	approx. 0.5 liter/ 16 fl oz
00004321093	ExxonMobil 1 0W-40 ESP X 3 engine oil	approx. 0.5 liter/ 16 fl oz

References: ⇒ *Workshop Manual '213019 Removing and installing turbocharger'*
 ⇒ *Workshop Manual '261019 Removing and installing exhaust manifold'*

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