

WLF6 - Replacing Turbocharger (Workshop Campaign)

Vehicle Type: **911 Carrera S (992) / 911 Carrera 4S (992)**

Model Year: **2020**

Subject: **Turbocharger**

Information: **On the affected vehicles, some exhaust turbocharger were installed on which the lever for the wastegate valve was not manufactured in accordance with specifications.**

As a result, the lever can break over the service life of the vehicle and the wastegate valve can then no longer be actuated to control the boost pressure.

To prevent consequential damage to the engine or turbochargers, limp-home mode is activated in this case and a corresponding warning message is displayed in the instrument cluster.



Information

On the affected vehicles, either the turbocharger for cylinders 1–3, the turbocharger for cylinders 4–6, or both turbochargers must be replaced. The action to be carried out on the relevant vehicle depends on the campaign scope assigned to it. Before carrying out the campaign, check which campaign scope is assigned to the relevant vehicle and then carry out the appropriate action.

Remedial Action: Vehicles with assigned **Scope 1**:

- Replacing turbocharger for cylinders 1–3

Vehicles with assigned **Scope 2**:

- Replacing turbocharger for cylinders 4–6

Vehicles with assigned **Scope 3**:

- Replacing both turbochargers

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). This campaign affects 36 vehicles.

Required parts and materials**Information**

Important Note: all replaced turbochargers must be preserved at dealers until requested back as returns or requested to be scrapped. Please do not automatically scrap these parts, as the supplier may request them back.

Information: The required parts depend on the respective assigned scope of the individual vehicles.
For an overview of the required parts per scope, see:

- ⇒ *Technical Information 'Parts required - Scope 1'*
- ⇒ *Technical Information 'Parts required - Scope 2'*
- ⇒ *Technical Information 'Parts required - Scope 3'*
- ⇒ *Technical Information 'Required materials - all scopes'*

Parts required - Scope 1

Parts required for **vehicles with assigned Scope 1:**

Part No.	Designation – Use	Qty.
OPB145701K	⇒ Exhaust turbocharger – Cylinders 1-3	1 ea.
OPB145039A	⇒ Seal – Turbocharger to exhaust manifold	1 ea.
PAF007634	⇒ Hexagon flange nut – Turbocharger to exhaust manifold	4 ea.
9P1253725A	⇒ Clamp – Turbocharger to catalytic converter	1 ea.
9A725311500	⇒ Seal – Turbocharger to catalytic converter	1 ea.
992253143A	⇒ Clamping sleeve – Rear silencer to catalytic converter	1 ea.
PAF008276	⇒ O-ring – Flange for oil extraction line to turbocharger	2 ea.
PAF008288	⇒ O-ring – Oil lines to turbocharger – Coolant lines to turbocharger	8 ea.

992129260	⇒ Hose clamp – Intake pipe to turbocharger	1 ea.
PAF008955	⇒ O-ring – Intake pipe to turbocharger	1 ea.
V04015006A	⇒ O-ring – Tank vent line to turbocharger (lower O-ring)	1 ea.
V04015006B	⇒ O-ring – Tank vent line to turbocharger (upper O-ring)	1 ea.

Parts required - Scope 2

 Parts required for **vehicles with assigned Scope 2:**

Part No.	Designation – Use	Qty.
OPB145702K	⇒ Exhaust turbocharger – Cylinders 4-6	1 ea.
OPB145039A	⇒ Seal – Turbocharger to exhaust manifold	1 ea.
PAF007634	⇒ Hexagon flange nut – Turbocharger to exhaust manifold	4 ea.
9P1253725A	⇒ Clamp – Turbocharger to catalytic converter	1 ea.
9A725311500	⇒ Seal – Turbocharger to catalytic converter	1 ea.
992253143A	⇒ Clamping sleeve – Rear silencer to catalytic converter	1 ea.
PAF008276	⇒ O-ring – Flange for oil extraction line to turbocharger	2 ea.
PAF008288	⇒ O-ring – Oil lines to turbocharger – Coolant lines to turbocharger	8 ea.
992129260	⇒ Hose clamp – Intake pipe to turbocharger	1 ea.
PAF008955	⇒ O-ring – Intake pipe to turbocharger	1 ea.

Parts required - Scope 3Parts required for **vehicles with assigned Scope 3:**

Part No.	Designation - Use	Qty.
OPB145701K	⇒ Exhaust turbocharger - Cylinders 1-3	1 ea.
OPB145702K	⇒ Exhaust turbocharger - Cylinders 4-6	1 ea.
OPB145039A	⇒ Seal - Turbocharger to exhaust manifold	2 ea.
PAF007634	⇒ Hexagon flange nut - Turbocharger to exhaust manifold	8 ea.
9P1253725A	⇒ Clamp - Turbocharger to catalytic converter	2 ea.
9A725311500	⇒ Seal - Turbocharger to catalytic converter	2 ea.
992253143A	⇒ Clamping sleeve - Rear silencer to catalytic converter	2 ea.
PAF008276	⇒ O-ring - Flange for oil extraction line to turbocharger	4 ea.
PAF008288	⇒ O-ring - Oil lines to turbocharger - Coolant lines to turbocharger	16 ea.
992129260	⇒ Hose clamp - Intake pipe to turbocharger	2 ea.
PAF008955	⇒ O-ring - Intake pipe to turbocharger	2 ea.
V04015006A	⇒ O-ring - Tank vent line to turbocharger (lower O-ring)	1 ea.
V04015006B	⇒ O-ring - Tank vent line to turbocharger (upper O-ring)	1 ea.

Required materials - all scopes

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

Part No.	Designation - Use	Qty.
00004330539	⇒ Klüberplus lubricant, 100g/ 3.5 oz tube - O-rings, seals	As much as required (approx. 5 grams/ 0.18 oz required per vehicle)
00004330516	⇒ Coolant additive, 20-liter/ 5.28 gal container - Cooling system	As much as required (approx. 1 liter/ 33.8 fl oz required per vehicle)
...	Engine oil in accordance with country specification - oil circuit	As much as required (approx. 0.5 liter/ 16.9 fl oz required per vehicle)*

* For warranty processing, enter the Part No. WLF60000001, "expendable items" designation, as an additional component costing \$12.50

Required tools

- Tools:
- **9696 - Filling device** for cooling system
 - **9696/2 - Cap**
 - **VAS 6096/2 Vacuum pump**
 - Torque wrench, 1.5–3 Nm (1–2 ftlb.), e.g. **VAS 6494 Torque screwdriver, 1.5-3.0 Nm (1-2 ftlb.)**
 - Torque wrench, 2–10 Nm (1.5–7.5 ftlb.), e.g. **VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
 - Torque wrench, 6–50 Nm (4.5–37 ftlb.), e.g. **VAG 1331A Torque wrench, 6-50 Nm (4.5-37 ftlb.)**
 - Torque wrench, 40–200 Nm (30–148 ftlb.), e.g. **VAG 1332 Torque wrench, 40-200 Nm (30-148 ftlb.)**
 - **9900 - PIWIS Tester 3**
 - Battery charger with a current rating of **at least 90 A** and - if required - **also with a current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 Battery charger 90A**



Information

The new 911 (992) comes with either a **lithium starter battery** (I-no. J2A) or an **AGM starter battery** (I-no. JOV, J4K) as standard.

This depends on the following:

- Country version
- Model type
- Vehicle equipment

Lithium starter batteries must only be charged using a **suitable battery charger** that has a current and voltage-controlled charge map.

For further information about the battery chargers to be used, see ⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*.

Replace turbocharger



Hot components

- Risk of burns
- ⇒ Let hot components cool down.
- ⇒ Wear personal protective gear.



Hot fluid

- Danger of scalding
- ⇒ Let the fluid cool down.
- ⇒ Wear personal protective gear.

NOTICE

Mixing fluids

- Risk of damage to components
- ⇒ Close off all openings immediately after exposing them (with adhesive tape, suitable stoppers).


Information

On the affected vehicles, either the turbocharger for cylinders 1–3, the turbocharger for cylinders 4–6, or both turbochargers must be replaced.

For this purpose, the affected vehicles are clearly assigned a corresponding scope:

Vehicles with assigned **Scope 1**:

- Replacing turbocharger for cylinders 1–3

Vehicles with assigned **Scope 2**:

- Replacing turbocharger for cylinders 4–6

Vehicles with assigned **Scope 3**:

- Replacing both turbochargers

Carry out the following tasks in accordance with the respective campaign scope.

- Work Procedure:
- 1 Raise the vehicle ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 2 Remove wheel ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
 - 3 Remove rear wheel housing liner (rear section) ⇒ *Workshop Manual '53691903 Removing and installing rear wheel housing liner (rear section)'*.
 - 4 Remove oxygen sensor upstream of catalytic converter ⇒ *Workshop Manual '246919 Removing and installing oxygen sensor upstream of catalytic converter'*.
 - 5 Remove turbocharger and install a new turbocharger. For instructions, see ⇒ *Workshop Manual '213019 Removing and installing turbocharger'*.
 - 6 Install oxygen sensor upstream of catalytic converter ⇒ *Workshop Manual '246919 Removing and installing oxygen sensor upstream of catalytic converter'*.
 - 7 Install rear wheel housing liner (rear section) ⇒ *Workshop Manual '53691903 Removing and installing rear wheel housing liner (rear section)'*.
 - 8 Install wheel ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
 - 9 Lower the vehicle and remove it from the lifting platform.
 - 10 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processingScope 1: **Replacing turbocharger for cylinders 1-3****Working time:**

Replacing turbocharger for cylinders 1-3

Labor time: **420 TU**

Includes:

- Removing and installing left rear wheel
- Removing and installing rear left wheel housing liner
- Removing and installing oxygen sensor upstream of catalytic converter for cylinders 1-3
- Draining and topping up coolant
- Checking engine oil level and topping up engine oil

Parts required:

OPB145701K	Turbocharger	1 ea.
OPB145039A	Seal	1 ea.
PAF007634	Hexagon flange nut	4 ea.
9P1253725A	Clamp	1 ea.
9A725311500	Seal	1 ea.
992253143A	Clamping sleeve	1 ea.
PAF008276	O-ring	2 ea.
PAF008288	O-ring	8 ea.
992129260	Hose clamp	1 ea.
PAF008955	O-ring	1 ea.
V04015006A	O-ring	1 ea.
V04015006B	O-ring	1 ea.

Required materials:

00004330539	Klüberplus lubricant, 100g/ 3.5 oz tube	0.05 ea. (= approx. 5 grams/ 0.18 oz)
00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.05 ea. (= approx. 1 liter/ 33.8 fl oz)

... Engine oil in accordance with country specifications 0.5 liter/ 16.9 fl oz*

* For warranty processing, enter the Part No. WLF60000001, "expendable items" designation, as an additional component costing \$12.50

⇒ **Damage Code WLF6 066 000 2**

Scope 2:

Replacing turbocharger for cylinders 4–6

Working time:

Replacing turbocharger for cylinders 4-6

Labor time: **414 TU**

- Includes:
- Removing and installing right rear wheel
 - Removing and installing right rear wheel housing liner
 - Removing and installing oxygen sensor upstream of catalytic converter
 - Draining and topping up coolant
 - Checking engine oil and topping up engine oil

Parts required:

OPB145702K	Turbocharger	1 ea.
OPB145039A	Seal	1 ea.
PAF007634	Hexagon flange nut	4 ea.
9P1253725A	Clamp	1 ea.
9A725311500	Seal	1 ea.
992253143A	Clamping sleeve	1 ea.
PAF008276	O-ring	2 ea.
PAF008288	O-ring	8 ea.
992129260	Hose clamp	1 ea.
PAF008955	O-ring	1 ea.

Required materials:

00004330539	Klüberplus lubricant, 100g/ 3.5 oz tube	0.05 ea. (= approx. 5 grams/ 0.18 oz)
00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.05 ea. (= approx. 1 liter/ 33.8 fl oz)
...	Engine oil in accordance with country specifications	0.5 liter/ 16.9 fl oz*

* For warranty processing, enter the Part No. WLF60000001, "expendable items" designation, as an additional component costing \$12.50

⇒ **Damage Code WLF6 066 000 2**

Scope 3:

Replacing both turbochargers**Working time:**

Replacing both turbochargers	Labor time: 611 TU
Includes:	<ul style="list-style-type: none"> Removing and installing rear wheels Removing and installing rear wheel housing liners Removing and installing oxygen sensors upstream of catalytic converter Draining and topping up coolant Checking engine oil and topping up engine oil

Parts required:

OPB145701K	Turbocharger	1 ea.
OPB145702K	Turbocharger	1 ea.
OPB145039A	Seal	2 ea.
PAF007634	Hexagon flange nut	8 ea.
9P1253725A	Clamp	2 ea.
9A725311500	Seal	2 ea.
992253143A	Clamping sleeve	2 ea.
PAF008276	O-ring	4 ea.

PAF008288	O-ring	16 ea.
992129260	Hose clamp	2 ea.
PAF008955	O-ring	2 ea.
V04015006A	O-ring	1 ea.
V04015006B	O-ring	1 ea.
Required materials:		
00004330539	Klüberplus lubricant, 100g/ 3.5 oz tube	0.05 ea. (= approx. 5 grams/ 0.18 oz)
00004330516	Coolant additive, 20-liter/ 5.28 gal container	0.05 ea. (= approx. 1 liter/ 33.8 fl oz)
...	Engine oil in accordance with country specifications	0.5 liter/ 16.9 fl oz*
* For warranty processing, enter the Part No. WLF60000001, "expendable items" designation, as an additional component costing \$12.50		
⇒ Damage Code WLF6 066 000 2		

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