

**WSAO - Replacing Coolant Pump (Workshop Campaign)**

Model Line: **Boxster (986)**  
**911 (996)**

Model Year: **As of 1997 up to 2005**

Concerns: **Coolant pump**

Cause: **It is possible that a coolant pump installed on the affected vehicles does not meet the required specifications.**  
If this is the case, the pump wheel can break during operation and plastic parts of the impeller can enter the cooling system. This impairs cooling performance and displays a warning message on the instrument cluster.

Action: Replace coolant pump and clean cooling system if necessary.

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

**Required parts and materials**

The **part numbers** of the **required parts and materials** for the respective vehicle can be seen in the **assigned scope**. For an overview of the campaign scopes, see "Warranty processing".

**Required tools**

- Tools:
- **9696 - Filling unit** or **VAS 531 011 - cooling system service unit**
  - Pliers for spring band clamps, e.g. **VAS 6856 - Pliers for spring band clamps** or **VAS 6891 - pliers for spring band clamps**
  - Torque wrench, 6-50 Nm (5-37 ftlb.), e.g. **V.A.G 1331A - torque spanner, 6-50 Nm (5-37 ftlb.)**
  - Torque wrench, 2-10 Nm (2-8 ftlb.), e.g., **V.A.G 1783 - Torque wrench, 2-10 Nm (2-8 ftlb.)**

**Replacing coolant pump**

- Work Procedure:
- 1 Drain the coolant.  
*Draining and filling coolant (includes bleeding)'*
  - 2 Remove the coolant pump.  
*Removing and installing coolant pump (engine installed)'*
  - 3 Check coolant pump for damage.

Assessment		Action
(✓)	The impeller of the coolant pump is <b>not damaged</b> .	Cooling system is <b>OK</b> . Install <b>new</b> coolant pump. <i>Removing and installing coolant pump (engine installed)'</i> <b>End of action.</b> Invoicing for <b>Scope 1</b> .
(x)	The impeller of the coolant pump is <b>damaged</b> .  <i>Example illustration of a damaged impeller</i>	Cooling system is <b>not OK</b> , Continue with Step ⇒ 4.

**Information**

Fragments of the impeller can collect in the cooling system in areas with low flow speed, e.g. at the intake and outlets of the coolers.

- 4 Loosen and pull off coolant hoses on the radiators.
- 5 Check inlets and outlets on the radiators for fragments and remove if necessary.
- 6 Fasten coolant hoses at the radiators.
- 7 Install **new** coolant pump, do **not** fill cooling system.  
For work procedure, see: *Removing and installing coolant pump (engine installed)'*
- 8 Clean the cooling system with water.  
For work procedure, see: *Cleaning the cooling system'*
- 9 Fill with coolant and bleed the cooling system.  
*Draining and filling coolant (includes bleeding)'*
- 10 Enter the campaign in the Warranty and Maintenance Logbook.

### Warranty processing



#### Information

The specified labor times were determined specifically for carrying out this campaign and include all necessary preliminary and subsequent rework. The labor time may differ from the labor time published in the Labor Operation List in the PCSS.

Scope 1:

#### Replacing coolant pump

<b>Labor time:</b>		
Replacing coolant pump		Labor time: <b>240 TU</b>
Includes:	Draining and filling coolant Replacing coolant pump	
<b>Required parts:</b>		
99610601157	Coolant pump	1 piece
99610634054	Seal	1 piece
90037801301	Hexagon-head bolt M6 x 25	5 piece(s)
90037817701	Hexagon-head bolt M6 x 30	2 piece(s)
<b>Required materials</b> (usually already available in the Porsche Center):		
00004330516	Coolant additive (20-liter/ 5.28 gal container)	0.5 piece(s)
⇒ <b>Damage number WSA0 066 000 2</b>		

Scope 2:

#### Replacing coolant pump and cleaning the cooling system

<b>Labor time:</b>		
Replacing coolant pump and cleaning the cooling system		Labor time: <b>370 TU</b>
Includes:	Draining and filling coolant Replacing coolant pump Cleaning the cooling system	
<b>Required parts:</b>		
99610601157	Coolant pump	1 piece
99610634054	Seal	1 piece
90037801301	Hexagon-head bolt M6 x 25	5 piece(s)

90037817701	Hexagon-head bolt M6 x 30	2 piece(s)
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**Required materials** (usually already available in the Porsche Center):

00004330516	Coolant additive (20-liter/ 5.28 gal container)	0.5 piece(s)
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⇒ **Damage number WSA0 066 000 2**

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