
W417 – Replace All Lower Valve Spring Caps
(Workshop Service Action)

Binder - 1, Engine - Part 1

Vehicle Type: **911 GT3 (996)**

Model Year: **2004 (4)**

Concern: **Increased Wear on Valve Spring Caps.**

Information: This is to inform you of a voluntary Workshop Service Action on certain 2004 model year 911 GT3 (996) vehicles, due to lower valve spring caps which were not sufficiently hardened being installed between the valve springs and the cylinder head. The lower valve spring caps will wear over time. This can cause engine damage during periods of extended use at high speeds, e.g., when the vehicle is used on a race track.

Therefore, we ask that the lower valve spring caps be replaced by lower valve spring caps with the correct hardness on the affected vehicles listed below during the Porsche Owner's next visit to your workshop.

Affected Vehicles: A total of 12 U.S. vehicles fall within the scope of this Service Action.

Very Important! Not every vehicle in the below listed range may be affected. Use the ranges below as a general guideline. Refer to Attachment "A" to determine if a particular vehicle is eligible for this service action. Alternatively, the VIN can be checked in the Porsche e-DCS/WWS for confirmation of an open service action.

The affected Vehicle Identification Numbers are contained in the following VIN Ranges:

Model Year 2004, US Vehicles

WPOAC29984S692270 to WPOAC299X4S692285 (911 GT3)

Work Procedure: See Attachment "B"

Time Allowance: 2700 TU, Replacing all lower valve spring caps (vehicles without air conditioning)
2760 TU, Replacing all lower valve spring caps (vehicles with air conditioning)

Parts Information:	Part Number	Qty.	Description
	996.105.117.91	24 ea.	Lower valve spring cap
	996.104.170.72	2 ea.	Cylinder head gasket
	996.105.613.71	2 ea.	Camshaft housing seal
	996 105 115 52	24 ea.	Valve stem seal
	996 105 313 90	2 ea.	Pan head screw
	900 067 051 02	6 ea.	5x10 Pan head screw
	996 105 551 90	2 ea.	M6 Hexagon-head bolt
	900 123 010 20	1 ea.	O-ring
	999 707 252 40	1 ea.	O-ring
	999.707.482.40	2 ea.	O-ring camshaft housing
	996.105.192.71	2 ea.	Chain housing seal
	996.105.172.70	2 ea.	Chain housing seal
	996.105.513.72	1 ea.	Left chain housing seal
	996.105.514.72	1 ea.	Right chain housing seal
	996.111.107.71	2 ea.	Exhaust manifold seal
	996.111.113.50	2 ea.	Exhaust pipe seal
	900.378.131.00	18 ea.	M8x28 hexagon-head bolt
	999.084.052.02	12 ea.	Exhaust pipe hexagon nut
	996.105.329.70	4 ea.	Cover
	999.707.411.40	8 ea.	O-ring connection fitting
	999.707.409.40	4 ea.	O-ring heat exchanger
	996.107.225.52	1 ea.	Oil filter element
	999.707.465.40	1 ea.	O-ring oil filter element
	996.107.217.70	1 ea.	Oil filter housing seal
	900.123.106.30	2 ea.	Oil line seal
	999.707.298.40	1 ea.	O-ring hydraulic pump
	999.707.229.40	4 ea.	O-ring chain housing
	999.707.410.40	2 ea.	O-ring water connection fitting
	999.707.425.40	2 ea.	O-ring oil pump
	999.707.427.40	4 ea.	O-ring oil pump
	999.707.504.40	4 ea.	O-ring valve
	000.043.203.73	1 ea.	Sealant
	000.043.203.33	1.0 l	Pentosin
	000.043.203.78	1.0 l	Antifreeze
		8.25 qt.	Engine oil

Tools:		
	Holding Wrench	9653/1
	Holding Wrench	9653
	Torx Socket Wrench	9330
	Adjusting Device	9661
	Guide	9661/2
	Guide	9661/3

If your dealership does not have Porsche Special Tools 9661, 9661/2 and 9661/3 in the service department, loaner tools are available through PCNA by contacting the Recall Administrator via email at: recalladministrator@porsche.com

Attachment "A" VIN List

USA 2004 911 GT3 (996)

WPOAC29984S692270
WPOAC29914S692272
WPOAC29934S692273
WPOAC29954S692274
WPOAC29974S692275
WPOAC29994S692276
WPOAC29904S692277
WPOAC29924S692278
WPOAC29944S692279
WPOAC29904S692280
WPOAC29964S692283
WPOAC299X4S692285

Attachment “B”

Work Procedure: **Replace all lower valve spring caps.**

1. Raise vehicle on vehicle hoist.
2. Drain coolant according to Technical Manual, Group 1, Chapter 19 38 17 and collect in a suitable, clean container.
3. Remove engine as described in the Technical Manual, Group 1, Chapter 10 01 19.
4. Remove 911 GT3 (996) camshaft housing as described in the Technical Manual, Group 1, Chapter 15 03 21.
5. Remove 911 GT3 (996) cylinder head as described in the Technical Manual, Group 1, Chapter 15 70 21.



Caution!

Risk of damage

> Under no circumstances may carbon deposits on the cylinders be removed by mechanical means.

6. Replace all lower valve spring caps (Figure 1, Item A).
7. Assemble cylinder head.
8. Install 911 GT3 (996) cylinder head as described in the Technical Manual, Group 1, Chapter 15 70 23.
9. Install camshaft housing and camshafts and set the camshaft timing as described in the **Technical Manual, Group 1, Chapter 15 05 23.**

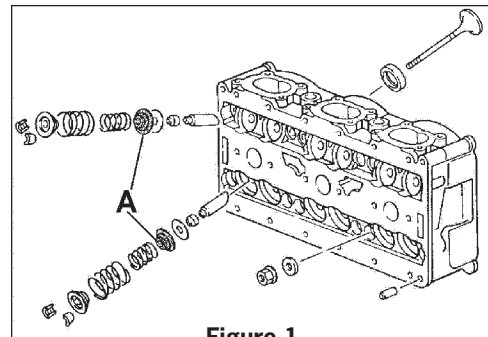


Figure 1



Caution!

DO NOT use camshaft timing instructions in Group 1, Chapter 15 03 23.

10. Install engine as described in the Technical Manual, Group 1, Chapter 10 01 19.
11. Refill the cooling system as described in the Technical Manual, Group 1, Chapter 19 38 17 with the coolant collected in Step 2 and bleed the cooling system.

Work Procedure: **12.** Remove vehicle from the vehicle hoist.
(cont'd)

13. Enter the service action into the *Warranty and Maintenance Booklet*.

Warranty Info:	Time Units	Description
	2700	Replacing all lower valve spring caps (vehicles without air conditioning)
	2760	Replacing all lower valve spring caps (vehicles with air conditioning)

Parts Information:	Part Number	Qty.	Description
	996.105.117.91	24 ea.	Lower valve spring cap
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	999.707.410.40	2 ea.	O-ring water connection fitting
	999.707.425.40	2 ea.	O-ring oil pump
	999.707.427.40	4 ea.	O-ring oil pump
	999.707.504.40	4 ea.	O-ring valve
	000.043.203.73	1 ea.	Sealant
	000.043.203.33	1.0 l	Pentosin
	000.043.203.78	1.0 l	Antifreeze
		8.25 qt.	Engine oil

Labor Operation: Will automatically be inserted along with the part number when the damage code is entered.

Damage Code: W417 066 000 2

Repair Code: 2

- Literature: 911 (996) *Technical Manual, Group 1:*
- >Repairs: 10 01 19 – Removing and installing engine
 - 15 03 21 – Removing camshaft housing
 - 15 05 23 – Installing camshaft housing
 - 15 05 06 – Checking camshaft timing
 - 15 70 21 – Removing cylinder head
 - 15 70 23 – Installing cylinder head
 - 19 38 17 – Draining and filling coolant

Important Notice: Porsche Cars N.A Technical Bulletins are intended for use by professional technicians, not a "Do-it-yourselfer." They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Special tools may be required to perform certain operations identified in these bulletins. Use of tools and procedures other than those recommended in these bulletins may be detrimental to the safe operation of your vehicle. Properly trained technicians have the equipment, tools, safety instructions and know-how to do a job properly and safely. If a condition is described, do not assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your Porsche Dealer for information on whether your vehicle may benefit from the information. Part numbers listed in these bulletins are for reference only. Always check with your authorized Porsche dealer to verify correct part numbers.

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Distribution	Asst. Manager	_____	Warranty Admin.	_____	Service Technician	_____	_____	_____	_____
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