

WMP6 - Replacing Valve Springs (Stop Delivery)

Vehicle Type: **Cayenne (9YA/9YB)
Panamera (971)**

Model Year: **As of 2021 up to 2022**

Concerns: **Valve spring**

Information: **Valve springs that do not meet the required specifications were installed on the affected vehicles due to a material error by the supplier.**
This can cause one or more valve springs to break.

Action required: Replace the valve springs of the intake and outlet valves.

Parts required



Information

The parts required and the required materials must be determined based on the campaign scope assigned to the respective vehicle. For an overview of the campaign scopes, see: ⇒ *Technical Information 'Warranty processing'*

The following 3 parts will **be auto allocated** to every dealer with a vehicle affected by WMP6. These parts, in the quantities listed below in the TI, do not need to be ordered. These 4 parts are required for every affected vehicle. All other parts listed will need to be ordered. Please see PPN Campaigns Posting "WMP6 Stop delivery - Replace valve springs" for a full list of affected VINs with Scope listed and parts required for each Scope on separate tabs on the spreadsheet.

- V04015001FR – Valve Spring – Intake Side
- V04015001FS – Valve Spring – Exhaust Side
- 9A710311301 – Cover

Required tools - Cayenne/ Cayenne PHEV (9YA/9YB)

- Tools:
- VAS 6832 - Master Gear unit elevating platform
 - VAS 6832/8 - Universal assembly tool
 - T40327 - T40327 - Fixing device
 - 3424 - 3424 - Spreader
 - VAS 6931 - Engine and gearbox jack
 - VAS 581 007 - Extraction unit for R1234yf
 - 9696 - 9696 - Filling device
 - VAS 6562 - Porsche adapter set for cooling system tester

- V.A.G 1274B - Cooling system tester
- VAS 6890 - Spring band clamp pliers or equivalent
- VAS 6096/2 - Vacuum pump
- 9889 - 9889 - Press-off tool
- VAS 6095A - Engine and gearbox support
- T40116 - T40116 - Locating pins
- 3311 - 3311 - Hook and support tool
- V.A.G 1331/12 - Ring wrench insert, a/f 16
- T90001 - T90001 - Counter-hold tool
- VAS 261 001 - Ring wrench insert, a/f 41
- VAS 261 005 - Hook wrench
- T90002 - T90002 - Counter-hold tool
- T03006 - T03006 - Staking pin
- T90000 - T90000 - Socket-wrench insert E24
- T40069 - T40069 - Locking pin
- T40331 - T40331 - Camshaft clamp
- VAS 5161A - Removal and installation device for valve keys
- VAS 5161A/38 - Guide plate
- T40263 - T40263 - Special wrench SW21
- T40314 - T40314 - Fit adapter
- 3364 - 3364 - Puller

Required tools - Panamera/ Panamera PHEV (971)

Tools:

- VAS 6928 - Socket set, 39-piece
- T10187 - T10187 - Press-out tool
- VAS 6832/7 - Assembly fixture - Panamera G2
- VAS 6832 - Master Gear unit elevating platform
- VAS 581 007 - Extraction unit for R1234yf
- 9696 - 9696 - Filling device
- VAS 6562 - Porsche adapter set for cooling system tester
- V.A.G 1274B - Cooling system tester
- VAS 6890 - Spring band clamp pliers or equivalent
- VAS 6096/2 - Vacuum pump
- 9889 - 9889 - Press-off tool
- 3033 - 3033 - Lifting tackle
- 9799 - 9799 - Impact puller
- T90001 - T90001 - Counter-hold tool
- VAS 261 001 - Ring wrench insert, a/f 41
- VAS 261 005 - Hook wrench
- T90002 - T90002 - Counter-hold tool
- T03006 - T03006 - Staking pin
- T90000 - T90000 - Socket-wrench insert E24
- T40069 - T40069 - Locking pin
- T40331 - T40331 - Camshaft clamp

- **VAS 5161A - Removal and installation device for valve keys**
- **VAS 5161A/38 - Guide plate**
- **3364 - 3364 - Puller**
- **T40263 - T40263 - Special wrench SW21**
- **T40314 - T40314 - Fit adapter**

Replacing valve springs - Cayenne (9YA/9YB) - Scope 2

- Work Procedure: 1 Replace valve springs Replacing ⇒ *Workshop Manual 'valve springs (WMP6)'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing valve springs - Cayenne PHEV (9YA/9YB) - Scope 3

- Work Procedure: 1 Isolate the high-voltage system from the power supply.
For instructions, see: ⇒ *Workshop Manual 'Isolating high-voltage system from power supply/Starting high-voltage system'*
- 2 Replace valve springs Replacing ⇒ *Workshop Manual 'valve springs (WMP6)'*.
- 3 Enter the campaign in the Warranty and Maintenance booklet.

Replacing valve springs - Panamera (971) - Scope 4

- Work Procedure: 1 Replace valve springs Replacing ⇒ *Workshop Manual 'valve springs (WMP6)'*.
- 2 Enter the campaign in the Warranty and Maintenance booklet.

Replacing valve springs - Panamera PHEV (971) - Scope 5

- Work Procedure: 1 Isolate the high-voltage system from the power supply.
For instructions, see: ⇒ *Workshop Manual 'Isolating high-voltage system from power supply/Starting high-voltage system'*
- 2 Replace valve springs Replacing ⇒ *Workshop Manual 'valve springs (WMP6)'*.
- 3 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing**Information**

The specified labor times were determined specifically for carrying out this campaign and include all necessary preliminary and subsequent work.

The labor times may differ from the labor times published in the Labor Operation List in PIWIS.

The following 3 parts will **be auto allocated** to every dealer with a vehicle affected by WMP6. These parts, in the quantities listed below in the TI, do not need to be ordered. These 4 parts are required for every affected vehicle. All other parts listed will need to be ordered. Please see PPN Campaigns Posting "WMP6 Stop delivery - Replace valve springs" for a full list of affected VINs with Scope listed and parts required for each Scope on separate tabs on the spreadsheet.

- V04015001FR – Valve Spring – Intake Side
- V04015001FS – Valve Spring – Exhaust Side
- 9A710311301 – Cover

Scope 1: **Dummy scope**

Scope 2: **Replace valve springs
Cayenne (9YA/9YB)**

Working time:

Replace valve springs

Labor time: **2943 TU**

Includes: Draining and filling coolant
Removing and installing engine
Removing and installing cylinder head cover
Performing front and rear suspension alignment
Adjusting vehicle at front and rear

Parts required:

V04015001FR	⇒ Valve spring — intake side	16 ea.
V04015001FS	⇒ Valve spring — exhaust side	16 ea.
9A710311301	⇒ Cover	3 ea.
PAB103649	⇒ Seal	1 ea.
PAB103650	⇒ Seal	1 ea.
9A700863800	⇒ O-ring	8 ea.
9A710923500	⇒ Sealing ring	4 ea.
9A709493000	⇒ Plate	4 ea.

9A790618900	⇒ Intermediate ring	8 ea.
9A714511320	⇒ Seal	1 ea.
N 90666003	⇒ O-ring	2 ea.
N 10272302	⇒ Hexagon collar nut, self-locking	2 ea.
PAF004572	⇒ Collared cheese head bolt	4 ea.
9A790614500	⇒ Sealing ring	4 ea.
PAB25372500	⇒ Clamp	2 ea.
PAF911511	⇒ Hexagon-head bolt (combination)	4 ea.
9A725311500	⇒ Seal	2 ea.
PAF91184301	⇒ Hexagon-head bolt	4 ea.
WHT006542	⇒ Hexagon-head bolt	2 ea.
N 10784702	⇒ Hexagon-head bolt	2 ea.
PAF001987	⇒ Hexagon nut, self-locking	2 ea.
PAF91240001	⇒ Combination screw	4 ea.
PAF91237901	⇒ Hexagon-head bolt	8 ea.
9A710344800	⇒ Fastening element	1 ea.
9A710348410	⇒ Seal	1 ea.
9A710351700	⇒ Seal	1 ea.
N 10665001	⇒ Countersunk screw with internal serration	4 ea.
9A710372700	⇒ Seal	1 ea.
95810453600	⇒ Seal	1 ea.
90012311830	⇒ Sealing ring	4 ea.
PAF008476	⇒ O-ring	1 ea.
9A725314100	⇒ Clamping sleeve	2 ea.
PAC907601	⇒ Pulse sender	1 ea.
PAF107599	⇒ Screw with internal serration head	6 ea.
95534919121	⇒ Plate	3 ea.
PAF005372	⇒ Hexagon-head bolt	2 ea.
WHT007061	⇒ 12 point socket	2 ea.
PAF102861	⇒ Hexagon nut	2 ea.
WHT007422	⇒ 12 point socket	2 ea.
PAF015081	⇒ Hexagon nut	2 ea.

PAF004571	⇒ Collared cheese head bolt	4 ea.
95557374903	⇒ O-ring	1 ea.
95557374901	⇒ Round seal	1 ea.
N 10518405	⇒ Round seal	1 ea.

Special feature of part number 9A799890701:

Due to the availability of parts, part number 9A799890700 may be ordered as an alternative, depending on the stock. This part number was stored in the system as an alternative part.

No mixed installation is permitted.

9A799890701	⇒ Repair set	8 ea.
9A799890700	⇒ Repair set	8 ea.

Additional parts required – Vehicle-specific/equipment-specific:

Vehicles with I-no. 1ZV/1ZW/1LX (Porsche Ceramic Composite Brake (PCCB))

95800841100	⇒ Cheese head bolt	4 ea.
Cayenne Turbo and Cayenne Turbo GT		
PAF10848901	⇒ Hose clamp	1 ea.
Cayenne GTS		
PAF107722	⇒ Hose clamp	1 ea.

Materials required:

00004330516	⇒ Coolant additive	0.2 ea.
00004330508	⇒ Mounting paste	0.1 ea.
00004320935	⇒ Special sliding compound	0.1 ea.
00004330510	Sealing compound	0.1 ea.
00004320993	Cleaning agent	0.1 ea.

⇒ Damage code WMP6 066 000 1

Scope 3: **Replace valve springs**
Cayenne (9YA/9YB)
PHEV

Working time:

Replace valve springs

Labor time: **3707 TU**

Includes: Isolate the high-voltage system from the power supply
 Draining and filling coolant
 Removing and installing engine
 Removing and installing cylinder head cover
 Performing front and rear suspension alignment
 Adjusting vehicle at front and rear

Parts required:

V04015001FR	⇒ Valve spring — intake side	16 ea.
V04015001FS	⇒ Valve spring — exhaust side	16 ea.
9A710311301	⇒ Cover	3 ea.
PAB103649	⇒ Seal	1 ea.
PAB103650	⇒ Seal	1 ea.
9A700863800	⇒ O-ring	8 ea.
9A710923500	⇒ Sealing ring	4 ea.
9A709493000	⇒ Plate	4 ea.
9A790618900	⇒ Intermediate ring	8 ea.
9A714511320	⇒ Seal	1 ea.
N 90666003	⇒ O-ring	2 ea.
N 10272302	⇒ Hexagon collar nut, self-locking	2 ea.
PAF004572	⇒ Collared cheese head bolt	4 ea.
9A790614500	⇒ Sealing ring	4 ea.
PAB25372500	⇒ Clamp	2 ea.
PAF911511	⇒ Hexagon-head bolt (combination)	4 ea.
9A725311500	⇒ Seal	2 ea.
PAF91184301	⇒ Hexagon-head bolt	4 ea.
WHT006542	⇒ Hexagon-head bolt	2 ea.
N 10784702	⇒ Hexagon-head bolt	2 ea.
PAF001987	⇒ Hexagon nut, self-locking	2 ea.
PAF91240001	⇒ Combination screw	4 ea.
PAF91237901	⇒ Hexagon-head bolt	8 ea.
9A710344800	⇒ Fastening element	1 ea.

9A710348410	⇒ Seal	1 ea.
9A710351700	⇒ Seal	1 ea.
N 10665001	⇒ Countersunk screw with internal serration	4 ea.
9A710372700	⇒ Seal	1 ea.
95810453600	⇒ Seal	1 ea.
90012311830	⇒ Sealing ring	4 ea.
PAF008476	⇒ O-ring	1 ea.
9A725314100	⇒ Clamping sleeve	2 ea.
PAC907601	⇒ Pulse sender	1 ea.
PAF107599	⇒ Screw with internal serration head	6 ea.
95534919121	⇒ Plate	3 ea.
PAF005372	⇒ Hexagon-head bolt	2 ea.
WHT007061	⇒ 12 point socket	2 ea.
PAF102861	⇒ Hexagon nut	2 ea.
WHT007422	⇒ 12 point socket	2 ea.
PAF015081	⇒ Hexagon nut	2 ea.
PAF004571	⇒ Collared cheese head bolt	4 ea.
95557374903	⇒ O-ring	1 ea.
95557374901	⇒ Round seal	1 ea.
N 10518405	⇒ Round seal	1 ea.

Special feature of part number 9A799890701:

Due to the availability of parts, part number 9A799890700 may be ordered as an alternative, depending on the stock. This part number was stored in the system as an alternative part.

No mixed installation is permitted.

9A799890701	⇒ Repair set	8 ea.
9A799890700	⇒ Repair set	8 ea.

Additional parts required – Vehicle-specific/equipment-specific:

Vehicles with I-no. 1ZV/1ZW/1LX (Porsche Ceramic Composite Brake (PCCB))

95800841100	⇒ Cheese head bolt	4 ea.
Cayenne Turbo and Cayenne Turbo GT		
PAF10848901	⇒ Hose clamp	1 ea.
Cayenne GTS		
PAF107722	⇒ Hose clamp	1 ea.

Materials required:

00004330516	⇒ Coolant additive	0.2 ea.
00004330508	⇒ Mounting paste	0.1 ea.
00004320935	⇒ Special sliding compound	0.1 ea.
00004330510	Sealing compound	0.1 ea.
00004320993	Cleaning agent	0.1 ea.

⇒ Damage code **WMP6 066 000 1**

Scope 4:

Replace valve springs

Panamera (971)

Working time:

Replace valve springs

Labor time: **2788 TU**

Includes: Draining and filling coolant
 Removing and installing engine
 Removing and installing cylinder head cover
 Performing front and rear suspension alignment
 Adjusting vehicle at front and rear

Parts required:

V04015001FR	⇒ Valve spring — intake side	16 ea.
V04015001FS	⇒ Valve spring — exhaust side	16 ea.
9A710311301	⇒ Cover	3 ea.
PAB103649	⇒ Seal	1 ea.
PAB103650	⇒ Seal	1 ea.
9A700863800	⇒ O-ring	8 ea.
9A710923500	⇒ Sealing ring	4 ea.
9A709493000	⇒ Plate	4 ea.
9A790618900	⇒ Intermediate ring	8 ea.
9A714511320	⇒ Seal	1 ea.
N 90666003	⇒ O-ring	2 ea.
N 10272302	⇒ Hexagon collar nut, self-locking	2 ea.
PAF004572	⇒ Collared cheese head bolt	4 ea.
9A790614500	⇒ Sealing ring	4 ea.
PAB25372500	⇒ Clamp	2 ea.

PAF911511	⇒ Hexagon-head bolt (combination)	4 ea.
97010680100	⇒ O-ring	2 ea.
99610680105	⇒ O-ring	2 ea.
9A700872900	⇒ O-ring	2 ea.
N 10625901	⇒ Collared cheese head bolt	1 ea.
WHT008539	⇒ Collared cheese head bolt	1 ea.
971253115B	⇒ Seal	2 ea.
PAB253115A	⇒ Seal	2 ea.
N 91244301	⇒ Hex flange bolt	10 ea.
N 10628301	⇒ Hex flange bolt	2 ea.
WHT004955A	⇒ Hex flange bolt	1 ea.
99970755741	⇒ O-ring	1 ea.
9A710344800	⇒ Fastening element	1 ea.
9A710348410	⇒ Seal	1 ea.
9A710351700	⇒ Seal	1 ea.
9A710372700	⇒ Seal	1 ea.
95810453600	⇒ Seal	1 ea.
90012311830	⇒ Sealing ring	4 ea.
PAC907601	⇒ Pulse sender	1 ea.
95557374903	⇒ O-ring	1 ea.
N 91251301	⇒ Hexagon-head bolt	6 ea.
95557374900	⇒ Round seal	1 ea.
95511110830	⇒ Clamp	2 ea.
9A700489400	⇒ O-ring	1 ea.
WHT005156	⇒ O-ring	1 ea.
9A750730100	⇒ Circlip	1 ea.
9A752572202	⇒ Circlip	1 ea.
N 10261311	⇒ Hexagon nut	2 ea.
N 10664503	⇒ Hex flange bolt	2 ea.
WHT005819	⇒ Hex flange bolt	2 ea.
PAF104029	⇒ Hexagon nut	2 ea.
N 10714101	⇒ Hexagon nut	2 ea.

Special feature of part number 9A799890701:

Due to the availability of parts, part number 9A799890700 may be ordered as an alternative, depending on the stock. This part number was stored in the system as an alternative part.

No mixed installation is permitted.

9A799890701	⇒ Repair set	8 ea.
9A799890700	⇒ Repair set	8 ea.

Materials required:

00004330516	⇒ Coolant additive	0.2 ea.
00004330508	⇒ Mounting paste	0.1 ea.
00004320935	⇒ Special sliding compound	0.1 ea.
00004330510	Sealing compound	0.1 ea.
00004320993	Cleaning agent	0.1 ea.

⇒ **Damage code WMP6 066 000 1**

Scope 5: **Replace valve springs**

Panamera (971)

PHEV

Working time:

Replace valve springs

Labor time: **2988 TU**

Includes: Isolate the high-voltage system from the power supply
 Draining and filling coolant
 Removing and installing engine
 Removing and installing cylinder head cover
 Performing front and rear suspension alignment
 Adjusting vehicle at front and rear

Parts required:

V04015001FR	⇒ Valve spring — intake side	16 ea.
V04015001FS	⇒ Valve spring — exhaust side	16 ea.
9A710311301	⇒ Cover	3 ea.
PAB103649	⇒ Seal	1 ea.
PAB103650	⇒ Seal	1 ea.
N 90809103	⇒ O-ring	8 ea.
9A710923500	⇒ Sealing ring	4 ea.

9A709493000	⇒ Plate	4 ea.
9A790618900	⇒ Intermediate ring	8 ea.
9A714511320	⇒ Seal	1 ea.
N 90666003	⇒ O-ring	2 ea.
N 10272302	⇒ Hexagon collar nut, self-locking	2 ea.
PAF004572	⇒ Collared cheese head bolt	4 ea.
9A790614500	⇒ Sealing ring	4 ea.
PAB25372500	⇒ Clamp	2 ea.
PAF911511	⇒ Hexagon-head bolt (combination)	4 ea.
97010680100	⇒ O-ring	2 ea.
99610680105	⇒ O-ring	2 ea.
9A700872900	⇒ O-ring	2 ea.
N 10625901	⇒ Collared cheese head bolt	1 ea.
WHT008539	⇒ Collared cheese head bolt	1 ea.
971253115B	⇒ Seal	2 ea.
PAB253115A	⇒ Seal	2 ea.
N 91244301	⇒ Hex flange bolt	10 ea.
N 10628301	⇒ Hex flange bolt	2 ea.
WHT004955A	⇒ Hex flange bolt	1 ea.
99970755741	⇒ O-ring	1 ea.
9A710344800	⇒ Fastening element	1 ea.
9A710348410	⇒ Seal	1 ea.
9A710351700	⇒ Seal	1 ea.
9A710372700	⇒ Seal	1 ea.
95810453600	⇒ Seal	1 ea.
90012311830	⇒ Sealing ring	4 ea.
PAC907601	⇒ Pulse sender	1 ea.
95557374903	⇒ O-ring	1 ea.
N 91251301	⇒ Hexagon-head bolt	6 ea.
95557374900	⇒ Round seal	1 ea.
95511110830	⇒ Clamp	2 ea.
9A700489400	⇒ O-ring	1 ea.

WHT005156	⇒ O-ring	1 ea.
9A750730100	⇒ Circlip	1 ea.
9A752572202	⇒ Circlip	1 ea.
N 10261311	⇒ Hexagon nut	2 ea.
N 10664503	⇒ Hex flange bolt	2 ea.
WHT005819	⇒ Hex flange bolt	2 ea.
PAF104029	⇒ Hexagon nut	2 ea.
N 10714101	⇒ Hexagon nut	2 ea.

Special feature of part number 9A799890701:

Due to the availability of parts, part number 9A799890700 may be ordered as an alternative, depending on the stock. This part number was stored in the system as an alternative part.

No mixed installation is permitted.

9A799890701	⇒ Repair set	8 ea.
9A799890700	⇒ Repair set	8 ea.

Materials required:

00004330516	⇒ Coolant additive	0.2 ea.
00004330508	⇒ Mounting paste	0.1 ea.
00004320935	⇒ Special sliding compound	0.1 ea.
00004330510	Sealing compound	0.1 ea.
00004320993	Cleaning agent	0.1 ea.

⇒ **Damage code WMP6 066 000 1**

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.