

Manufacturer's Certificate

Freigabe/Approval
11/22 ENU 4440 **4**

Approved: Wheels, Tires and Spacers (11/22)

Revision: This bulletin replaces bulletin Group 4 08/10, dated July 29, 2010.

Model Year: **As of 2008 up to 2010**

Vehicle Types: **Cayenne / Cayenne Diesel / Cayenne S / Cayenne S Transsiberia / Cayenne GTS / Cayenne Turbo / Cayenne Turbo S**

Information: Current approval status: March 2022



WARNING

Driving with different tires (mixed tires)

- **Uncontrollable vehicle handling**
- ⇒ **Only use tires of the same make and type, with the same speed index and the same specification code (NO, N1, N2, ...) on a vehicle.**



Information

The tire makes and types shown in **bold** in the tables below are newly approved tires for Cayenne vehicles as of model year 2011. We recommend that you use these tires even when installing new tires on model year 2008 to 2010 vehicles.

Winter Tires: Winter tires are generally designed for use in the low temperature range and have even more advantages over the all-season tires in winter road conditions. Specially developed tread compositions and tread patterns have provided targeted improvements in the winter properties whilst maintaining safe handling on wet and dry roads.

Size	Tire make and type / Label value (Link to EU database)	Notes
235/65 R 17 108H M+S	Dunlop SP Winter Sport 3D NO (Rotation) https://eprel.ec.europa.eu/qr/530243 Pirelli Scorpion Ice&Snow NO (Inside/Outside) Label value currently not available.	Only for Cayenne (V6) and Cayenne Diesel Not for vehicles with PCCB, I-no. PB1
255/55 R 18 109V M+S	Michelin Latitude Alpin Green N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/408467 Dunlop SP Winter Sport 3D NO (Rotation) https://eprel.ec.europa.eu/qr/530282	Not for Cayenne Turbo with engine power kit and Cayenne Turbo S as well as Cayenne Turbo as of model year 2009

Size	Tire make and type / Label value (Link to EU database)	Notes
	Pirelli Scorpion Ice + Snow NO Label value currently not available. Pirelli Scorpion Ice + Snow N1 https://eprel.ec.europa.eu/qr/594353	Not for vehicles with PCCB, I-no. PB1
255/50 R 19 107V M+S	Dunlop Grandtrek WT M3 NO (Rotation) Label value currently not available. Pirelli Scorpion Ice + Snow NO (Inside/Outside) Label value currently not available.	Not for vehicles with PCCB, I-no. PB1
275/40 R 20 106V M+S	Pirelli Scorpion Ice + Snow NO (Inside/Outside) Label value currently not available.	

All-Season
Tires:

Through targeted optimisation of the tire compounds and tire profiles, a good compromise between the driving characteristics under summer temperature conditions and driving safety on winter road conditions has been realized.

The all-season tires approved for the Cayenne feature an M+S identification and are suitable for winter driving.

Size	Tire make and type / Label value (Link to EU database)	Notes
235/65 R 17 108V M+S	Continental 4x4 Contact N1 https://eprel.ec.europa.eu/qr/482843	Only for Cayenne (V6) and Cayenne Diesel Not for vehicles with PCCB, I-no. PB1
255/55 R 18 109V M+S	Continental 4x4 Contact N1 Label value currently not available. Goodyear Eagle LS2 NO Label value currently not available. Goodyear Eagle LS2 N1 https://eprel.ec.europa.eu/qr/531123 Michelin Latitude Tour HP NO Label value currently not available. Michelin Latitude Tour HP GreenX N1 https://eprel.ec.europa.eu/qr/408698	Not for Cayenne Turbo with engine power kit and Cayenne Turbo S as well as Cayenne Turbo as of model year 2009 Not for vehicles with PCCB, I-no. PB1
275/45 R 19 108V M+S	Continental 4x4 Contact NO Label value currently not available. Goodyear Eagle LS2 NO Label value currently not available. Michelin Latitude Tour HP NO https://eprel.ec.europa.eu/qr/410908	Not for vehicles with PCCB, I-no. PB1

Manufacturer's Certificate

Freigabe/Approval

11/22 ENU 4440

4

Summer Tires:

Size	Tire make and type / Label value (Link to EU database)	Notes
235/65 R 17 108V	Bridgestone Dueler H/P Sport N1 https://eprel.ec.europa.eu/qr/384636 Continental Cross ContactUHP NO (Inside/Outside) https://eprel.ec.europa.eu/qr/483438 Michelin 4x4 Diamaris NO (Inside/Outside) https://eprel.ec.europa.eu/qr/409678	Only for Cayenne (V6) and Cayenne Diesel Not for vehicles with PCCB, I-no. PB1
255/55 R 18 109Y	Bridgestone Dueler H/P Sport N1 Label value currently not available. Continental Cross Contact UHP N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/482494 Continental Sport Contact 3 NO (Inside/Outside) https://eprel.ec.europa.eu/qr/482539 Michelin Latitude Sport N0 (Inside/Outside) Label value currently not available. Michelin Latitude Sport N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/410794	Not for Cayenne Turbo with engine power kit and Cayenne Turbo S as well as Cayenne Turbo as of model year 2009 Not for vehicles with PCCB, I-no. PB1
275/45 R 19 108Y	Bridgestone Dueler H/P Sport N0 https://eprel.ec.europa.eu/qr/384640 Michelin Latitude Sport N0 (Inside/Outside) https://eprel.ec.europa.eu/qr/410841 Pirelli P ZERO ROSSO N1 (Inside/Outside) Label value currently not available. Yokohama Advan Sport V103N0 (Inside/Outside) https://eprel.ec.europa.eu/qr/631881	Not for vehicles with PCCB, I-no. PB1
275/40 R 20 106Y	Bridgestone Dueler H/P Sport N0 https://eprel.ec.europa.eu/qr/384723 Michelin 4x4 Diamaris N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/410542 Pirelli P ZERO ROSSO N1 (Inside/Outside) Label value currently not available. Yokohama Advan Sport N0 (Inside/Outside) https://eprel.ec.europa.eu/qr/631883	
295/35 R 21 107Y	Continental Cross Contact UHP NO (Inside/Outside) https://eprel.ec.europa.eu/qr/481289 Michelin Latitude Sport N0 (Inside/Outside) Label value currently not available. Michelin Latitude Sport N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/409379 Pirelli P-Zero Rosso NO (Inside/Outside)	

Size	Tire make and type / Label value (Link to EU database)	Notes
	Label value currently not available. Pirelli P-Zero N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/594453 Yokohama Advan Sport N0 (Inside/Outside) https://eprel.ec.europa.eu/qr/631882 Yokohama Advan Sport N1 (Inside/Outside) https://eprel.ec.europa.eu/qr/631879	

Collapsible
Spare Tires:



Information

The collapsible spare tires listed here must only be installed on the relevant spare wheel. Do not accelerate sharply or drive at high speed around bends when driving with a collapsible spare wheel installed. The **highest permissible speed is 80 km/h (50 mph)**. This speed must not be exceeded due to modified driving characteristics and in order to reduce the amount of wear.

Observe relevant instructions in the Owner's Manual.

Size	Tire make and type	Notes
195/75-18 106P	Vredestein Spacemaster	Not for Cayenne Turbo, Cayenne Turbo with engine power kit and Cayenne Turbo S
195/65-19 106P	Vredestein Spacemaster	Not for Cayenne (V6) and Cayenne Diesel



Information

"N..." = Specification code of the tire, e.g. "N0", "N1", "N2", ...

The complete "N..." code of the tires in question must be shown on the tire sidewall near the tire type designation. Only tires of the same make and type, with the same speed index and the same specification code may be used on a vehicle.

The tire makes and types tested and approved by Porsche are only "XL" (Extra Load) tires.

Instructions for correct mounting of the tires are also given on the tire sidewall.

- Arrow with inscription "Rotation" = directional mounting.
- "Inside/Outside" inscription = mounting on specified side only.
- Arrow with both inscriptions "Rotation" and "Inside/Outside" = directional mounting on specified side only.

Tire speed ranges (speed index) in km/h (mph)

T = max. 190, H = max. 210, V = max. 240, W = max. 270, Y = max. 300.



Information

If a tire is damaged and it is not possible to determine with absolute certainty that there is no ply damage - with all of its consequences - or if the tire was thermally and/or mechanically overloaded due to a loss of pressure or other prior damage, replace the tire in question for safety reasons.

Repairs must not be carried out on "V", "W", "Y" and "ZR" tires and inner tubes must not be used in tubeless tires. Please advise your customers accordingly.

If temperatures fall to below **45° F./7°C**, we recommend that you always install winter tires on the vehicle because the vehicle handling features of summer tires are not as good at low temperatures.

Extremely low temperatures can cause permanent damage to summer tires.



Incorrect tire pressure

- **Uncontrollable vehicle handling**
- ⇒ **Adjust the tire pressure according to specifications. Never allow the pressure to fall below the minimum pressure.**
- ⇒ **Check age of tires. Replace tires that are more than 6 years old.**
- ⇒ **Perform visual inspections.**
- ⇒ **Use new rubber valves at every tire change.**
- ⇒ **Use only tires approved by Porsche.**

Tire Pressure: **Cayenne (V6) / Cayenne Diesel**

Tire type	Part load ¹ FA / RA	Full load FA / RA
All-season (all), Winter (235/65 R 17 108H M+S, 255/55 R 18 109V M+S, 255/50 R 19 107V M+S)	2.4 bar / 2.7 bar (35 psi/39 psi)	2.7 bar / 3.4 bar (39 psi/49 psi)
Summer (all), winter (275/40 R 20 106V M+S)	2.6 bar / 2.9 bar (38 psi/42 psi)	2.7 bar / 3.4 bar (39 psi/49 psi)

¹ approx. **225 kg**; according to the EU framework guideline, this corresponds to 3 persons + **21 kg** of luggage.

Cayenne S/Cayenne S Transsyberia/Cayenne GTS

Tire type	Part load ² FA / RA	Full load FA / RA
All-season (all), Winter (235/65 R 17 108H M+S, 255/55 R 18 109V M+S, 255/50 R 19 107V M+S)	2.4 bar / 2.7 bar (35 psi/39 psi)	2.7 bar / 3.4 bar (39 psi/49 psi)
Summer (all), winter (275/40 R 20 106V M+S)	2.6 bar / 2.9 bar (38 psi/42 psi)	2.7 bar / 3.4 bar (39 psi/49 psi)

² approx. **225 kg**; according to the EU framework guideline, this corresponds to 3 persons + **21 kg** of luggage.

Cayenne Turbo / Cayenne Turbo S

Tire type	Part load ³ FA / RA	Full load FA / RA
All	2.6 bar/2.9 bar (38 psi/42 psi)	2.7 bar/3.4 bar (39 psi/49 psi)

³ approx. **225 kg**; according to the EU framework guideline, this corresponds to 3 persons + **21 kg** of luggage.



Information

The specified air pressures apply only to the tire makes and types approved by Porsche (including all tire types: winter, all-terrain, all-season and summer) and are specified for cold tires (approx. **68° F/20°C**). In vehicles with a tire pressure monitoring system, use the rocker switch to select the type of load on the on-board computer via "Main menu > Tire pressure > Settings > Load".

Sizes

Permissible tire and wheel sizes (RO = rim offset in mm):

Tires	Wheels	Notes
195/75–18 106P	6.5 J x 18 H2, RO 53	Not for Cayenne Turbo, Cayenne Turbo with engine power kit and Cayenne Turbo S. Not for vehicles with PCCB, I-no. PB1 Spare wheel, only permitted with relevant collapsible spare tire see section on "Collapsible spare tires"
195/65–19 106P	6.5 J x 19 H2, RO 43.5	Not for Cayenne (V6) and Cayenne Diesel Spare wheel, only permitted with relevant collapsible spare tire see section on "Collapsible spare tires"

Tires	Wheels	Notes
235/65 R 17 108H/V	7.5 J x 17 H2, RO 53	<p>Only for Cayenne (V6) and Cayenne Diesel Not for vehicles with PCCB, I-no. PB1</p> <p>H = Winter V = All Season, Summer Snow chains can be installed 17-mm spacer per wheel permitted on rear axle⁷</p>
255/55 R 18 109V/Y	8 J x 18 H2, RO 57	<p>Not for Cayenne Turbo with engine power kit and Cayenne Turbo S as well as Cayenne Turbo as of model year 2009 Not for vehicles with PCCB, I-no. PB1</p> <p>V = All-season, winter Y = Summer Snow chains can be installed 17-mm spacer per wheel permitted on rear axle⁷</p>
255/50 R 19 107V	9 J x 19 H2, RO 60	<p>Not for vehicles with PCCB, I-no. PB1</p> <p>Only winter tires Snow chains can only be installed on rear axle; 17-mm spacer per wheel permitted on rear axle⁷</p>
275/45 R 19 108V/Y	9 J x 19 H2, RO 60	<p>Not for vehicles with PCCB, I-no. PB1</p> <p>V = All-season Y = Summer Snow chains can only be installed on rear axle 17-mm spacer per wheel permitted on rear axle⁷</p>
275/40 R 20 106V/Y	9 J x 20 H2, RO 60	<p>V = Winter Y = Summer Snow chains can only be installed on rear axle 17-mm spacer per wheel permitted on rear axle⁷</p>
275/40 R 20 106V/Y	10 J x 20 H2, RO 55	<p>V = Winter Snow chains can only be installed on rear axle Y = Summer</p>

Tires	Wheels	Notes
295/35R 21 107Y	10 J x 21 H2, RO 50	Summer tires Snow chains cannot be installed Only with wheel arch extensions
295/35R 21 107Y	10 J x 21 H2, RO 45	Summer tires Snow chains cannot be installed Only with wheel arch extensions

- 4 Not for Australia
- 5 Can only be installed on front axle.
- 6 Can only be installed on rear axle.
- 7 Spacers must be removed in order to install spare wheel or snow chains.

 **WARNING**

Wheel electronics units not detected, incorrectly secured or loose on vehicles without Tire Pressure Monitoring (TPM)

- Risk of damage to wheels and/or tires
 - Uncontrollable vehicle handling
- ⇒ Do not mount wheels with wheel electronics units on vehicles without TPM.

Wheels:



Information

Improper handling can damage the wheel surface.
 Carry out tire removal and mounting using a bead holding-down device only.
 Use a leather pad on the rim flange to support the valve insertion tool.
 Only use the Porsche centering clamping set for balancing.
 Do not use brushes to clean the wheels because brushes can cause deep scratches that cannot be removed by polishing.
 Never use solvents or other chemical substances on tires.

Overview of Porsche wheels for summer, winter and all-season tires

Identification on the inside/outside of the wheel disc:

wheel size, rim offset (RO) in mm, order or part number and Porsche logo
(the order number is not attached to the component).

6.5 J x 18, RO 53

Part No.

955.362.050.11 or

7L0.601.027.A

6.5 J x 19, RO 43.5

Part No.

955.362.050.20 or

7L5.601.011.A

18 inch spare wheel

(not shown)

19 inch spare wheel

(not shown)

7.5 J x 17 H2, RO 53

Part No.

955.362.126.01 9A1 or

7L5.601.025.P



17 inch Cayenne wheel

4

Freigabe/Approval

4440 ENU 11/22

Manufacturer's Certificate

8 J x 18 H2, RO 57

Part No.

955.362.136.40 9A1 or

7L5.601.025.R

*18 inch Cayenne S II wheel*

8 J x 18 H2, RO 57

Part No.

955.362.136.50 9A1 or

7L5.601.025.S

*18 inch Turbo II wheel*

9 J x 19 H2, RO 60

Part No.

955.362.138.30 9A1 or

7L5.601.025.L

or

955.362.138.20 9A1 or

971 044 690 A/B



19 inch Design wheel

Pirelli ScorpioEn Ice + Snow NO (Inside/Outside)

Part No.

955.362.140.70 9A1 or

7L5.601.025.M

or

955.362.140.80 9A1 or

7L5.601.025.N



20 inch Sport Design wheel

4

Freigabe/Approval

4440 ENU 11/22

Manufacturer's Certificate

9 J x 20 H2, RO 60

Part No.

955.362.140.90 9A1 or

7L5.601.025.K (silver) or

7L5.601.025.AB (in vehicle color)



20 inch Sport Techno wheel

Rear axle only
10 J x 20 H2, RO 55
Part No.
955.362.142.00 9A1 or
7L5.601.025.Q (silver) or
7L5.601.025.AA (in vehicle color)



20 inch Sport Techno wheel

10 J x 21 H2, RO 50
Part No.
955.362.156.00 9A1 or
7L5.601.025.T



21 inch Sport wheel

Front axle only:

10 J x 21 H2, RO 50

Part No.

955.362.158.00 9A1 or

7L5.601.025.AE (silver) or

7L5.601.025.AG (in vehicle color)



21 inch Sport Plus wheel

Rear axle only:

10 J x 21 H2, RO 45

Part No.

955.362.162.00 9A1 or

7L5.601.025.AF (silver) or

7L5.601.025.AH (in vehicle color)



21 inch Sport Plus wheel

- 8 Cannot be combined with rim 955.362.138.20 9A1 (7L5.601.025B)
- 9 Cannot be combined with rim 955.362.138.30 9A1 (7L5.601.025L)
- 10 Cannot be combined with rim 955.362.140.80 9A1 (7L5.601.025N)
- 11 Cannot be combined with rim 955.362.140.70 9A1 (7L5.601.025M)
- 12 Only with wheel arch extensions



Incorrectly installed snow chains

- **Uncontrollable vehicle handling**
- ⇒ **Do not exceed the maximum speed of Speed 30 mph/50 km/h.**
- ⇒ **Observe installation instructions from the chain manufacturer.**

Snow chains: The best possible handling characteristics are achieved when snow chains are installed on all four wheels of the vehicle. However, snow chains can only be installed on one axle (preferably the rear axle). Use snow chains only in conjunction with All Season or winter tires. Porsche offers the following snow chains as accessories:

Tire size	Porsche part no.	Type of snow chain
235/65 R 17	955.044.600.07	Link-type chain, 5.0 mm
255/55 R 18	955.044.600.08	Link-type chain, 3.5 mm
255/50 R 19	955.044.600.08 ¹³	Link-type chain, 3.5 mm
275/45 R 19	955.044.600.08 ¹³	Link-type chain, 3.5 mm
275/40 R 20	955.044.600.13 ¹³	Link-type chain, 3.5 mm

¹³ Only permitted on rear axle

Wheel Mounting Tightening torque 160 Nm (118 ftlb.)

Removing/ Installing: Before mounting or removing a wheel, screw the assembly aids (threaded bolts for wheel mounting, Part No. WH1.001.963) into the wheel hub instead of the two wheel bolts. Only then should you remove the three remaining wheel bolts and remove the wheel carefully, without touching the brake discs. The wheels are secured with standard wheel bolts (M14 x 1.5 x 51), Part No. 955.361.203.01. Never grease the wheel bolts. Only "original Cayenne wheel bolts" may be used! Install wheel bolts and tighten evenly in diagonally opposite sequence. Start at the top when tightening.

- Wheel Storage:
- Tires must be stored in a cool, dry and dark room with adequate ventilation.
 - Tires must never come into contact with fuel, oil, grease or chemicals.
 - Do not store summer tires in storage areas with ambient temperatures of less than 5° F (-15° C).
 - Complete wheel & tire assemblies can be stacked for storage; we recommend that you increase the tire pressure by approximately 6 psi (0.4 bar).
 - Optimum conditions for storage of the complete wheels are provided by the Original Porsche storage trolley, Part No. 000.044.000.38.
 - If the tires are not mounted on wheels, it is best to store them in a vertical position.
 - We recommend that you turn tires stored in this position every two weeks in order to prevent flat spots.
 - Tires that are stacked in a horizontal position will become severely deformed and cannot be seated properly in the rim flange when they are mounted.

General
Information:

- Always use new valves when changing tires.
- Always observe any possible instructions concerning the rolling direction and/or specifying which side the tires must be mounted on.
- Coat the tire beads and humps with mounting lubricant before mounting the tire. This ensures that the tire beads will slide over the humps easily.
- In order to prevent the tire from turning on the wheel, avoid extreme driving maneuvers (acceleration and braking) during the first 100 to 200 miles with new or recently mounted tires.
- In order to optimize smoothness of rolling, it is appropriate - and necessary in individual cases - to mount the tire in a certain (favorable) position with respect to the wheel (matching).

Matching (uncontrolled and controlled) is explained below: Uncontrolled matching:

- Turning the tire on the wheel by 90° or 120° if necessary in order to achieve an acceptable value with regard to rolling smoothness (true running, imbalance and weight distribution of balance weights).

Controlled matching:

- With a balancing machine with matching program. In most cases, this produces an even better result with regard to the rolling smoothness (true running, imbalance and weight distribution of the balance weights) than can be achieved with uncontrolled matching.
- Maximum permissible radial runout and lateral runout of the wheels < 0.7 mm. Maximum permissible radial runout and lateral runout of the wheels with tires < 1.25 mm. Values < 1.50 mm - ideally approx. 0.5 mm - are desirable.
- The mounting pressure (seating pressure) of 58 psi/4.0 bar overpressure must not be exceeded before both tire beads are evenly seated on the rim flange.

New Tires (Replacements):

- If new tires are to be mounted or the tires of one axle are to be replaced, tires of the same make, type and with the same specification code must always be used on each of the two axles.
- If tires are replaced on one axle only, the different tread depth from that on the other axle can cause a noticeable change in the familiar handling.
- This is especially the case if new tires are mounted on the rear axle.
- This effect decreases with increasing tire mileage.

When replacing a tire on an axle, make sure that the tread depth of the new tire does not differ from that of the other tire on the same axle by more than 30 %.

Refer to WM 449503 for specific details of the vehicle you are working on.

- >The 2mm specification will be given here.
- > If there is none listed then the default is 30%.

Repairs to Tires:

- If a tire is damaged and it cannot be determined with absolute certainty that there is no ply damage - with all of its consequences - or if the tire was thermally or mechanically overloaded due to a loss of pressure or other prior damage, we recommend replacement of the tire in question for safety reasons.

- Repairs to "V", "W", "Y", and "ZR" tires are not permissible, as is the use of inner tubes in tubeless tires.

Tire Aging:

- Tires age due to chemical and physical processes, which can impair their function.
- Tires that are stored unused for an extended period harden and become brittle faster than tires that are in continual use.
- Hairline aging cracks can occur on older tires.
- On tires in continual use, the kneading action activates the plasticizer in the rubber and thereby prevents hardening and cracking.
- Therefore, attention should be paid not only to the tread depth but also to the age of the tire.
- Tires should not be older than 6 years.
- The age of the tire can be determined via the DOT code on the sidewall, which indicates the production date of the tire: e.g. DOT 2201 = 22nd week of 2001.

References: ⇒ *Workshop Manual '44 Wheels and tyres'*
 ⇒ *Workshop Manual '440519 Removing and fitting wheel'*
 ⇒ *Workshop Manual '44 General information on Tyre Pressure Monitoring (TPMS)'*

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.

© 2022 Porsche Cars North America, Inc.