

Approved Wheels and Tires (03/18)

Vehicle Type: **All Cayenne (9YA) models**

Model Year: **As of 2018**

General information: This bulletin contains information about

- technically permissible wheel/tire combinations,
- measures that may be required when changing the wheel/tire combination installed at the factory,
- approved original Porsche alloy wheels and
- approved summer, all-season and winter tires and their tire pressures.

Concern: Approval status: November 2017

Sizes: **Permissible wheel and tire sizes**
(RO = rim offset in mm, FA = front axle, RA = rear axle)



Information

Porsche Ceramic Composite Brakes (PCCB) are only permitted for 21-inch wheels, depending on wheel type.



Information

Porsche Surface Coated Brakes (PSCB) are only permitted for 20-inch or bigger wheels.



Information

For vehicles fitted with 19-inch and 20-inch wheels at the factory on which 21-inch or 22-inch wheels are to be retrofitted, the wheel arch extension set with Part No. 9Y0 044 820 must always be installed.

Tires	Tire sizes	Wheel sizes	Snow chains
Cayenne, Cayenne S			
Summer	FA: 255/55 ZR 19 (111Y) XL RA: 275/50 ZR 19 (112Y) XL	FA: 8.5 J x 19 H2, RO 47 RA: 9.5 J x 19 H2, RO 54	No
	FA: 275/45 ZR 20 (110Y) XL RA: 305/40 ZR 20 (112Y) XL	FA: 9.0 J x 20 H2, RO 50 RA: 10.5 J x 20 H2, RO 64	No
	FA: 285/40 ZR 21 (109Y) XL RA: 315/35 ZR 21 (111Y) XL	FA: 9.5 J x 21 H2, RO 46 RA: 11.0 J x 21 H2, RO 58	No

Tires	Tire sizes	Wheel sizes	Snow chains
	FA: 285/35 ZR 22 (106Y) XL RA: 315/30 ZR 22 (107Y) XL	FA: 10.0 J x 22 H2, RO 48 RA: 11.5 J x 22 H2, RO 61	No
Winter	FA: 255/55 R 19 111V XL RA: 275/50 R 19 112V XL	FA: 8.5 J x 19 H2, RO 47 RA: 9.5 J x 19 H2, RO 54	RA only 9Y0044 690A
	FA: 275/45 R20 110V XL RA: 305/40 R 20 112V XL	FA: 9.0 J x 20 H2, RO 50 RA: 10.5 J x 20 H2, RO 64	RA only 9Y0044 690A
	FA: 275/40 R 21 107V XL RA: 305/35 R 21 109V XL	FA: 9.5 J x 21 H2, RO 46 RA: 11.0 J x 21 H2, RO 58	RA only 9Y0044 690A
All-season	FA: 255/55 R19 111V XL RA: 275/50 R 19 112V XL	FA: 8.5 J x 19 H2, RO 47 RA: 9.5 J x 19 H2, RO 54	RA only 9Y0044 690A
	FA: 275/45 R20 110V XL RA: 305/40 R 20 112V XL	FA: 9.0 J x 20 H2, RO 50 RA: 10.5 J x 20 H2, RO 64	RA only 9Y0044 690A
	FA: 285/40 ZR 21 (109Y) XL RA: 315/35 ZR 21 (111Y) XL	FA: 9.5 J x 21 H2, RO 46 RA: 11.0 J x 21 H2, RO 58	No

Tires	Tire sizes	Wheel sizes	Snow chains
Cayenne Turbo			
Summer	FA: 275/45 ZR 20 (110Y) XL RA: 305/40 ZR 20 (112Y) XL	FA: 9.0 J x 20 H2, RO 50 RA: 10.5 J x 20 H2, RO 64	No
	FA: 285/40 ZR 21 (109Y) XL RA: 315/35 ZR 21 (111Y) XL	FA: 9.5 J x 21 H2, RO 46 RA: 11.0 J x 21 H2, RO 58	No
	FA: 285/35 ZR 22 (106Y) XL RA: 315/30 ZR 22 (107Y) XL	FA: 10.0 J x 22 H2, RO 48 RA: 11.5 J x 22 H2, RO 61	No
Winter	FA: 275/45 R20 110V XL RA: 305/40 R 20 112V XL	FA: 9.0 J x 20 H2, RO 50 RA: 10.5 J x 20 H2, RO 64	RA only 9Y0044 690A
	FA: 275/40 R 21 107V XL RA: 305/35 R 21 109V XL	FA: 9.5 J x 21 H2, RO 46 RA: 11.0 J x 21 H2, RO 58	RA only 9Y0044 690A
All-season	FA: 275/45 R20 110V XL	FA: 9.0 J x 20 H2, RO 50	RA only

	RA: 305/40 R 20 112V XL	RA: 10.5 J x 20 H2, RO 64	9Y0044 690A
	FA: 285/40 ZR 21 (109Y) XL RA: 315/35 ZR 21 (111Y) XL	FA: 9.5 J x 21 H2, RO 46 RA: 11.0 J x 21 H2, RO 58	No

Wheels:

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

Identification on inside of wheel:

Wheel size, rim offset (RO) in mm, part number (without color code FFF) and Porsche logo

19-inch "Cayenne" wheel

FA: 8.5 J x 19 H2, RO 47

Part No. 9Y0.601.025 FFF

RA: 9.5 J x 19 H2, RO 54

Part No. 9Y0.601.025.A FFF



19-inch Cayenne wheel

19-inch "Cayenne S" wheel

FA: 8.5 J x 19 H2, RO 47

Part No. 9Y0.601.025.B FFF

RA: 9.5 J x 19 H2, RO 54

Part No. 9Y0.601.025.C FFF



19-inch Cayenne S wheel

20-inch "Cayenne Design" wheel

FA: 9.0 J x 20 H2, RO 50
Part No. 9Y0.601.025.F FFF

RA: 10.5 J x 20 H2, RO 64
Part No. 9Y0.601.025.G FFF



20-inch Cayenne Design wheel

20-inch "Cayenne Sport" wheel

FA: 9.0 J x 20 H2, RO 50
Part No. 9Y0.601.025.D FFF

RA: 10.5 J x 20 H2, RO 64
Part No. 9Y0.601.025.E FFF



20-inch Cayenne Sport wheel

21-inch "RS Spyder Design" wheel

FA: 9.5 J x 21 H2, RO 46

Part No. 9Y0.601.025.K FFF

RA: 11.0 J x 21 H2, RO 58

Part No. 9Y0.601.025.L FFF



21-inch RS Spyder Design wheel

21-inch "Cayenne Turbo" wheel

FA: 9.5 J x 21 H2, RO 46
Part No. 9Y0.601.025.AD FFF
RA: 11.0 J x 21 H2, RO 58
Part No. 9Y0.601.025.AE FFF

*21-inch Cayenne Turbo wheel***21-inch "EXC/TEQ" wheel**

FA: 9.5 J x 21 H2, RO 46
Part No. 9Y0.601.025.P FFF
Part No. 9Y0.601.029.P FFF
RA: 11.0 J x 21 H2, RO 58
Part No. 9Y0.601.025.Q FFF
Part No. 9Y0.601.029.Q FFF

Should be available from 06/2018

*21-inch Cayenne EXC/TEQ wheel***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.

**Information**

Only fit wheels with identical part numbers on one axle.

Wheel **Tightening torque 160 Nm**

Mounting:



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.**

Summer Tires:

Model	Tire sizes	Tire make and type	
Cayenne, Cayenne S	FA: 255/55 ZR19 (111Y) RA: 275/50 ZR19 (112Y)	Continental ContiSportContact 5 NO (asymmetrical, Inside/Outside, mounting on specified side only)	
		Bridgestone Dueler H/P Sport NO (asymmetrical, Inside/Outside, mounting on specified side only)	
		Michelin Latitude Sport 3 NO (CCC) (asymmetrical, Inside/Outside, mounting on specified side only)	
	FA: 275/45 ZR20 (110Y) RA: 305/40 ZR20 (112Y)	Continental ContiSportContact 5P NO (CCC) (asymmetrical, Inside/Outside, mounting on specified side only)	
		Bridgestone Dueler H/P Sport NO (asymmetrical, Inside/Outside, mounting on specified side only)	
		Pirelli P Zero NO (asymmetrical, Inside/Outside, mounting on specified side only)	
	FA: 285/40 ZR21 (109Y) RA: 315/35 ZR21 (111Y)	Pirelli P Zero NO (CCC) (asymmetrical, Inside/Outside, mounting on specified side only)	
	Cayenne Turbo	FA: 275/45 ZR20 (110Y) RA: 305/40 ZR20 (112Y)	Continental ContiSportContact 5P NO (CCC) (asymmetrical, Inside/Outside, mounting on specified side only)
			Bridgestone Dueler H/P Sport NO (asymmetrical, Inside/Outside, mounting on specified side only)
Pirelli P Zero NO			

		(asymmetrical, Inside/Outside, mounting on specified side only)
	FA: 285/40 ZR21 (109Y) RA: 315/35 ZR21 (111Y)	Pirelli P Zero NO (CCC) (asymmetrical, Inside/Outside, mounting on specified side only)
	FA: 285/35 ZR22 (106Y) RA: 315/30 ZR22 (107Y)	Pirelli P Zero NO (asymmetrical, Inside/Outside, mounting on specified side only)

Winter Tires:

Model	Tire sizes	Tire make and type
Cayenne, Cayenne S	FA: 255/55 R19 111V RA: 275/50 R19 112V	Michelin Pilot Alpin 5 SUV NO (CCC) (symmetrical, directional, direction of rotation-related mounting)
		Pirelli Scorpion Winter NO (CCC) (symmetrical, directional, direction of rotation-related mounting)
	FA: 275/45 R20 110V RA: 305/40 R20 112V	Michelin Pilot Alpin 5 SUV NO (CCC) (symmetrical, directional, direction of rotation-related mounting)
		Pirelli Scorpion Winter NO (symmetrical, directional, direction of rotation-related mounting)
	FA: 275/40 R21 107V RA: 305/35 R21 109V	Pirelli Scorpion Winter NO (CCC) (symmetrical, directional, direction of rotation-related mounting)
	Cayenne Turbo	FA: 275/45 R20 110V RA: 305/40 R20 112V
Pirelli Scorpion Winter NO (symmetrical, directional, direction of rotation-related mounting)		
FA: 275/40 R21 107V RA: 305/35 R21 109V		Pirelli Scorpion Winter NO (CCC) (symmetrical, directional, direction of rotation-related mounting)

All-Season
Tires:

Model	Tire sizes	Tire make and type
Cayenne, Cayenne S	FA: 255/55 R19 111V RA: 275/50 R19 112V	Michelin PSAS3 N0 (asymmetrical, Inside/Outside, mounting on specified side only)
		Pirelli Scorpion Verde A/S N0 (CCC) (asymmetrical, Inside/Outside, mounting on specified side only)
	FA: 275/45 R20 110V RA: 305/40 R20 112V	Michelin PSAS3 N0 (Inside/Outside, mounting on specified side only)
		Pirelli Scorpion Verde A/S N1 (asymmetrical, Inside/Outside, mounting on specified side only)
	FA: 285/40 R21 109V RA: 315/35 R21 111V	Pirelli Scorpion Verde A/S N0 (asymmetrical, Inside/Outside, mounting on specified side only)
	Cayenne Turbo	FA: 275/45 R20 110V RA: 305/40 R20 112V
Pirelli Scorpion Verde A/S N0 (asymmetrical, Inside/Outside, mounting on specified side only)		
FA: 285/40 R21 109V RA: 315/35 R21 111V		Pirelli Scorpion Verde A/S N0 (asymmetrical, Inside/Outside, mounting on specified side only)



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.
Instructions for correct mounting of the tires are also given on the tire sidewall. If there are no mounting instructions on the tire sidewall, the tire must be mounted so that the DOT marking is visible from the outside.

**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 to "V", "W", "Y" and "ZR" tires are not permissible, as well as the use of inner tubes in tubeless tires. Please inform your customers accordingly. It is advisable to mount winter tires at temperatures below **45° F/7°C**, because the driving characteristics of summer tires are reduced at low temperatures. Extremely low temperatures can cause permanent damage to summer tires.

**WARNING****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 only tires recommended by Porsche.**

Tire Pressure:

**Information**

The tire pressure applies only to the tire makes and types approved by Porsche, and is specified for cold tires (approx. **68° F/20°C**). The tire pressures must never be lower than the specified values.

Standard tire pressure

Cayenne, Cayenne S	Part load		Full load	
	Front axle	Rear axle	Front axle	Rear axle
19, 20, 21, 22-inch summer tires	2.4 bar (35 psi)	2.6 bar (38 psi)	2.6 bar (38 psi)	2.8 bar (41 psi)
19, 20, 21-inch winter/all- season tires	2.4 bar (35 psi)	2.6 bar (38 psi)	2.6 bar (38 psi)	2.8 bar (41 psi)

Cayenne Turbo	Part load		Full load	
	Front axle	Rear axle	Front axle	Rear axle
21-inch summer tires	2.6 bar (38 psi)	2.6 bar (38 psi)	2.7 bar (39 psi)	2.9 bar (42 psi)
22-inch summer tires	2.7 bar (39 psi)	2.8 bar (41 psi)	2.8 bar (41 psi)	3.3 bar (48 psi)
20, 21-inch winter/all-season tires	2.6 bar (38 psi)	2.6 bar (38 psi)	2.7 bar (39 psi)	2.9 bar (42 psi)



WARNING

Driving at high speed with low tire pressure

- Irreparable damage to tires
- ⇒ Set Comfort air pressure for tires only on vehicles with Tire Pressure Monitoring (TPM) and "Comfort" selected in the "Tire pressure" main menu in the multi-function display.



Information

The permitted speed threshold for Comfort tire pressure depends on the vehicle's country equipment (c-option) and cannot be selected.

Comfort tire pressure up to 100 mph (160 km/h):

Comfort tire pressure up to 100 mph (160 km/h)

For vehicles with "Comfort pressure" selected in the Tire Pressure Monitoring (TPM) system and speed threshold "100 mph (160 km/h)".

Cayenne, Cayenne S	Front axle	Rear axle
19, 20, 21-inch summer/winter-/all-season tires	2.2 bar (32 psi)	2.4 bar (35 psi)
Cayenne Turbo		
21-inch summer/winter-/all-season tires	2.4 bar (35 psi)	2.4 bar (35 psi)

WARNING**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: Porsche offers the following snow chains as accessories:

Tire size	Porsche Part No.
for all winter and all-season — RA only	9Y0044690A
21-inch all-season tires are not approved for fitting snow chains	

Snow-chain clearance is only guaranteed for the tires specified above. Can only be fitted on the rear wheels.

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 wheels can be stacked for storage; we recommend that you increase the tire pressure by approx. 6 psi (0.4 bar).

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 Info: 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. Refer to notes on page 1 (if applicable).

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.

If new tires are to be mounted or the tires of one axle are to be replaced, tires of the same make, the same 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 by more than 30 %.

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 on "ZR" tires are not permissible, as is the use of inner tubes in tubeless tires. 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.

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