

Cayenne (92A) 45/21 ENU 4400 4

Approved Wheels, Tires and Spacers (45/21)

Revision: This bulletin replaces bulletin Group 4 25/21, dated June 15, 2021.

- Model Year: As of 2015 up to 2018
- Vehicle Type: All Cayenne models

Information: Approval status: May 2021

General: This Manufacturer's Certificate 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.

Sizes: Technically permissible wheel/tire combinations (RO = rim offset in mm, FA = front axle, RA = rear axle)

Tires	Tire size	Wheel size	Snow chains
Cayenne, Ca	ayenne Diesel, Cayenne S, Cayenne S D	iesel, Cayenne S E-Hybrid	
Summer	255/55 R 18 109Y XL	8 J x 18 H2, RO 53	
	– Not for vehicles with Porsche Ceramic Composite Brake (PCCB)		No
	265/50 R 19 110Y XL	8.5 J x 19 H2, RO 59	
	– Not for vehicles with 20-inch Porsche Ceramic Composite Brake (PCCB)		No
	275/45 R 20 110Y XL	9 J x 20 H2, RO 57	
	 Permitted for vehicles with 20-inch Porsche Ceramic Composite Brake (PCCB) depending on wheel type 		No
	275/45 R 20 110Y XL	9.5 J x 20 H2, RO 47	
	 Only with wheel arch extensions or SportDesign package 		No
	295/35 R 21 107Y XL	10 J x 21 H2, RO 50	
	 Only with wheel arch extensions or SportDesign package 		No

Tires	Tire size	Wheel size	Snow chains	
All-season	255/55 R 18 109V XL M+S	8 J x 18 H2, RO 53		
Winter	– Not for vehicles with Porsche Ceramic Composite Brake (PCCB)		FA and RA	
	265/50 R 19 110V XL M+S	8.5 J x 19 H2, RO 59		
	– Not for vehicles with 20-inch Porsche Ceramic Composite Brake (PCCB)		RA only	
	275/45 R 20 110V XL M+S	9 J x 20 H2, RO 57		
	 Permitted for vehicles with 20-inch Porsche Ceramic Composite Brake (PCCB) depending on wheel type 		RA only	
	275/45 R 20 110V XL M+S	9.5 J x 20 H2, RO 47		
	 Only with wheel arch extensions or SportDesign package 		No	
Cayenne GT	S, Cayenne Turbo			
Summer	265/50 R 19 110Y XL	8.5 J x 19 H2, RO 59		
	– Not for vehicles with Porsche Ceramic Composite Brake (PCCB)		No	
	275/45 R 20 110Y XL	9 J x 20 H2, RO 57		
	 Permitted for vehicles with Porsche Ceramic Composite Brake (PCCB) depending on wheel type 		No	
	275/45 R 20 110Y XL	9.5 J x 20 H2, RO 47		
	 Only with wheel arch extensions or SportDesign package 		No	
	295/35 R 21 107Y XL	10 J x 21 H2, RO 50		
	 Only with wheel arch extensions or SportDesign package 		No	

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Tires	Tire size	Wheel size	Snow chains	
All-season	265/50 R 19 110V XL M+S	8.5 J x 19 H2, RO 59		
Winter	– Not for vehicles with Porsche Ceramic Composite Brake (PCCB)		RA only	
	275/45 R 20 110V XL M+S	9 J x 20 H2, RO 57		
	 Permitted for vehicles with Porsche Ceramic Composite Brake (PCCB) depending on wheel type 		RA only	
	275/45 R 20 110V XL M+S	9.5 J x 20 H2, RO 47		
	 Only with wheel arch extensions or SportDesign package 		No	
Cayenne Tu	irbo S			
Summer	275/45 R 20 110Y XL	9 J x 20 H2, RO 57		
	 Permitted for vehicles with Porsche Ceramic Composite Brake (PCCB) depending on wheel type 		No	
	275/45 R 20 110Y XL	9.5 J x 20 H2, RO 47		
	 Only with wheel arch extensions or SportDesign package 		No	
	295/35 R 21 107Y XL	10 J x 21 H2, RO 50		
	 Only with wheel arch extensions or SportDesign package 		No	
All-season	275/45 R 20 110V XL M+S	9 J x 20 H2, RO 57		
Winter	 Permitted for vehicles with Porsche Ceramic Composite Brake (PCCB) depending on wheel type 		RA only	
	275/45 R 20 110V XL M+S	9.5 J x 20 H2, RO 47		
	 Only with wheel arch extensions or SportDesign package 		No	

5-mm wheel spacers:

heel The **front and rear axle can be installed with 5-mm wheel spacers, Part No. 958.044.500.00** (set), for the wheel/tire combinations listed in the table above. 17-mm wheel spacers:

The rear axle can be installed with 17-mm wheel spacers, Part No. 955.044.600.23 (set), for the wheel/tire combinations listed in the table above. Exception: The use of 17-mm wheel spacers is not approved for the wheel sizes 9.5 J x 20 H2, RO 47 and 10 J x 21 H2, RO 50.

Generally, the vehicle must meet one of the following requirements before 17-mm wheel spacers can be installed:

- Wheel arch extensions are installed
- SportDesign package is installed

Wheels:Overview of Porsche wheels for summer, all-season and winter tires
Identification on inside of wheel:
Wheel size, rim offset (RO) in mm, part number (without color code FFF) and Porsche logo

18-inch Cayenne wheel

8 J x 18 H2, RO 53 Part No. 958.362.136.20 FFF and 7P5.601.025.AB FFF

18-inch Cayenne S wheel

8 J x 18 H2, RO 53 Part No. 958.362.144.20 FFF and 7P5.601.025.AC FFF

19-inch Cayenne Turbo wheel

8.5 J x 19 H2, R0 59 Part No. 958.362.138.20 FFF and 7P5.601.025.AD FFF







19-inch Cayenne Design wheel, 19-inch Cayenne Design II wheel

8.5 J x 19 H2, ET 59 Part No. 958.362.146.20 FFF 7P5.601.025.AG/CE FFF

19-inch Cayenne Sport Classic II wheel

8.5J x 19 H2, RO 59 Part No. 7P5.601.025.BE FFF

20-inch Cayenne SportDesign wheel, 20-inch Cayenne SportDesign II wheel

9 J x 20 H2, RO 57 Part No. 958.362.140.20 FFF and 7P5.601.025.AF/CF FFF

– Not for vehicles with 20-inch Porsche Ceramic Composite Brake (PCCB)







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20-inch RS Spyder wheel, 20-inch RS Spyder GTS wheel

9 J x 20 H2, RO 57 Part No. 958.362.148.10 FFF and 7P5.601.025.CA FFF

or

9.5 J x 20 H2, R0 47 Part No. 958.362.151.00 FFF and 7P5.601.025.CJ FFF

21-inch 911 Turbo Design wheel

10 J x 21 H2, R0 50 Part No. 958.362.142.21 and 7P5.601.025.BT FFF





21-inch Cayenne Sport Edition wheel

10 J x 21 H2, RO 50 Part No. 958.362.152.01 FFF or 958.362.150.02/10 FFF and 7P5.601.025.BF/BG/BH/BJ FFF



21-inch Cayenne Sport Classic II wheel

10 J x 21 H2, RO 50 Part No. 958.362.154.00 FFF or 7P5.601.025.BD/BK FFF



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.

Tightening torque 180 Nm (133 ftlb.) Wheel

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 (N0, N1, N2, ...) on a vehicle.

Summer Tires:	Model	Tire size	Tire make and type/ label value (link to EU database)	
	Cayenne, Cayenne Diesel,	255/55 R 18 109Y XL	Continental ContiSportContact 3 N0 (Inside/Outside)	
	Cayenne S, Cayenne S Diesel,		FA/RA: https://eprel.ec.europa.eu/qr/482539	
	Cayenne S E-Hybrid		Michelin Latitude Sport N1 (Inside/Outside)	
			FA/RA: https://eprel.ec.europa.eu/qr/410794	
		265/50 R 19 110Y XL	Goodyear Eagle F1 Asymmetric 2 SUV N1 (Inside/Outside)	
			FA/RA: https://eprel.ec.europa.eu/qr/531118	
			Michelin Latitude Sport 3 N0 (Inside/Outside)	
			FA/RA: https://eprel.ec.europa.eu/qr/409051	
			Continental ContiSportContact 3 N0 nside/Outside) A/RA: https://eprel.ec.europa.eu/qr/482539 A/RA: https://eprel.ec.europa.eu/qr/410794 Goodyear Eagle F1 Asymmetric 2 SUV N1 nside/Outside) A/RA: https://eprel.ec.europa.eu/qr/531118 A/RA: https://eprel.ec.europa.eu/qr/531118 A/RA: https://eprel.ec.europa.eu/qr/409051 A/RA: https://eprel.ec.europa.eu/qr/409051 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/594239 A/RA: https://eprel.ec.europa.eu/qr/631888 A/RA: https://eprel.ec.europa.eu/qr/631888 A/RA: https://eprel.ec.europa.eu/qr/631888 A/RA: https://eprel.ec.europa.eu/qr/410389 Okohama Advan Sport V-105T N2	
			FA/RA: https://eprel.ec.europa.eu/qr/594239	
		275/45 R 20 110Y XL	Michelin Latitude Sport NO (Inside/Outside)	
			FA/RA: Data currently not available	
			Yokohama Advan Sport V-103H N0 (Inside/Outside)	
			FA/RA: https://eprel.ec.europa.eu/qr/631888	
		295/35 R 21 107Y XL	Michelin Latitude Sport 3 N1 (Inside/Outside)	
			FA/RA: https://eprel.ec.europa.eu/qr/410389	
			Yokohama Advan Sport V-105T N2 (Inside/Outside)	

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Model	Tire size	Tire make and type/ label value (link to EU database)
		FA/RA: https://eprel.ec.europa.eu/qr/630879
Cayenne GTS, Cayenne Turbo	265/50 R 19 110Y XL	Goodyear Eagle F1 Asymmetric 2 SUV N1 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/531118
		Michelin Latitude Sport 3 NO (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/409051
		Pirelli P Zero NO (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/594239
	275/45 R 20 110Y XL	Michelin Latitude Sport NO (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/412160
		Yokohama Advan Sport V-103H N0 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/631888
	295/35 R 21 107Y XL	Michelin Latitude Sport 3 N1 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/410389
		Yokohama Advan Sport V-105T N2 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/630879
Cayenne Turbo S	275/45 R 20 110Y XL	Michelin Latitude Sport NO (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/412160
		Yokohama Advan Sport V-103H N0 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/631888
	295/35 R 21 107Y XL	Michelin Latitude Sport 3 N1 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/410389
		Yokohama Advan Sport V-105T N2 (Inside/Outside)
		FA/RA: https://eprel.ec.europa.eu/qr/630879

All-Season Tires:

Model	Tire size	Tire make and type/ label value (link to EU database)	
Cayenne, Cayenne Diesel,	255/55 R 18 109V XL M+S	Continental CrossContact LX Sport NO (Inside/Outside)	
Cayenne S, Cayenne S Diesel,		FA/RA: https://eprel.ec.europa.eu/qr/482652	
Cayenne S E-Hybrid		Goodyear Eagle LS2 N1	
		FA/RA: https://eprel.ec.europa.eu/qr/609535	
		Michelin Latitude Tour HP GreenX N1	
		FA/RA: https://eprel.ec.europa.eu/qr/408698	
	265/50 R 19 110V	Goodyear Eagle LS2 N1	
	XLM+S	FA/RA: https://eprel.ec.europa.eu/qr/529585	
		Michelin Latitude Tour HP GreenX NO	
		FA/RA: https://eprel.ec.europa.eu/qr/409817	
	275/45 R 20 110V XL M+S	Continental CrossContact LX Sport NO (Inside/Outside)	
		FA/RA: https://eprel.ec.europa.eu/qr/482653	
		Goodyear Eagle LS2 N1	
		FA/RA: https://eprel.ec.europa.eu/qr/529586	
		Pirelli Scorpion Verde All Season NO (Inside/Outside)	
		FA/RA: https://eprel.ec.europa.eu/qr/594244	
		Pirelli Scorpion Verde All Season N1 (Inside/Outside)	
		FA/RA: https://eprel.ec.europa.eu/qr/594661	
Cayenne GTS,	265/50 R 19 110V	Goodyear Eagle LS2 N1	
Cayenne Turbo	XLM+S	FA/RA: https://eprel.ec.europa.eu/qr/529585	
		Michelin Latitude Tour HP GreenX NO	
		FA/RA: https://eprel.ec.europa.eu/qr/409817	
	275/45 R 20 110V XL M+S	Continental CrossContact LX Sport NO (Inside/Outside)	
		FA/RA: https://eprel.ec.europa.eu/qr/482653	
		Goodyear Eagle LS2 N1	
		FA/RA: https://eprel.ec.europa.eu/qr/529586	

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Model	Tire size	Tire make and type/ label value (link to EU database)		
		Pirelli Scorpion Verde All Season NO (Inside/Outside)		
		FA/RA: https://eprel.ec.europa.eu/qr/594244		
		Pirelli Scorpion Verde All Season N1 (Inside/Outside)		
		FA/RA: https://eprel.ec.europa.eu/qr/594661		
Cayenne Turbo S 275/45 R 20 110V XL M+S		Continental CrossContact LX Sport NO (Inside/Outside)		
		FA/RA: https://eprel.ec.europa.eu/qr/482653		
		Goodyear Eagle LS2 N1		
		FA/RA: https://eprel.ec.europa.eu/qr/529586		
		Pirelli Scorpion Verde All Season NO (Inside/Outside)		
		FA/RA: https://eprel.ec.europa.eu/qr/594244		
		Pirelli Scorpion Verde All Season N1 (Inside/Outside)		
		FA/RA: https://eprel.ec.europa.eu/qr/594661		

Winter Tires:

Model	Tire size	Tire make and type/ label value (link to EU database)
Cayenne, Cayenne Diesel, Cayenne S, Cayenne S Diesel,	255/55 R 18 109V XL M+S	Dunlop SP Winter Sport 3D NO (Rotation) FA/RA: https://eprel.ec.europa.eu/qr/530282
Cayenne S E-Hybrid		Michelin Latitude Alpin LA2 N1 (Rotation) FA/RA: https://eprel.ec.europa.eu/gr/408467
		Pirelli Scorpion Ice & Snow N1 (Inside/Outside) FA/RA: https://eprel.ec.europa.eu/gr/594353
	265/50 R 19 110V XL M+S	Dunlop SP Winter Sport 3D NO (Rotation) – Only for vehicles with air suspension

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Model	Tire size	Tire make and type/ label value (link to EU database)
		FA/RA: https://eprel.ec.europa.eu/qr/530113
		Pirelli Scorpion Winter NO (Rotation)
		FA/RA: https://eprel.ec.europa.eu/qr/594660
	275/45 R 20 110V XL M+S	Dunlop SP Winter Sport 3D NO (Rotation)
		- Only for vehicles with air suspension
		FA/RA: https://eprel.ec.europa.eu/qr/529033
		Michelin Latitude Alpin LA2 NO (Rotation)
		FA/RA: https://eprel.ec.europa.eu/qr/409193
Cayenne GTS, Cayenne Turbo	265/50 R 19 110V XL M+S	Dunlop SP Winter Sport 3D NO (Rotation)
		- Only for vehicles with air suspension
		FA/RA: https://eprel.ec.europa.eu/qr/530113
		Pirelli Scorpion Winter NO (Rotation)
		FA/RA: https://eprel.ec.europa.eu/qr/594660
	275/45 R 20 110V XL M+S	Dunlop SP Winter Sport 3D NO (Rotation)
		- Only for vehicles with air suspension
		FA/RA: https://eprel.ec.europa.eu/qr/529033
		Michelin Latitude Alpin LA2 NO (Rotation)
		FA/RA: https://eprel.ec.europa.eu/qr/409193
Cayenne Turbo S	275/45 R 20 110V XL M+S	Dunlop SP Winter Sport 3D NO (Rotation)
		- Only for vehicles with air suspension
		FA/RA: https://eprel.ec.europa.eu/qr/529033
		Michelin Latitude Alpin LA2 NO (Rotation)
		FA/RA: https://eprel.ec.europa.eu/qr/409193



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.

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

or "Right"

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 permissable, 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.

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 for summer tires

Wheel	Cayenne, Cayenne Diesel Cayenne S, Cayenne S Diesel			Cayenne S E-Hybrid				
size	Part	art load Full load Part load		Full load		load	Full	load
	FA	RA	FA	RA	FA	RA	FA	RA
18-inch	2.5 bar (36 psi)	2.8 bar (41 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)	2.4 bar (35 psi)	2.9 bar (42 psi)	2.6 bar (38 psi)	3.2 bar (46 psi)
19-inch/ 20-inch/ 21-inch	2.4 bar (35 psi)	2.6 bar (38 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)	2.4 bar (35 psi)	2.9 bar (42 psi)	2.6 bar (38 psi)	3.2 bar (46 psi)

	Cayenne GTS					
Wheel size	Part	load	Full load			
	FA	RA	FA	RA		
19-inch/ 20-inch/ 21-inch	2.4 bar (35 psi)	2.6 bar (38 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)		

	Cayenne Turbo				
Wheel size	Part	load	Full load		
	FA	RA	FA	RA	
19-inch/ 20-inch/ 21-inch	2.5 bar (36 psi)	2.7 bar (39 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)	

	Cayenne Turbo S					
Wheel size	Part	load	Full load			
	FA	RA	FA	RA		
20-inch/ 21-inch	2.6 bar (38 psi)	2.8 bar (41 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)		

Standard tire pressure for winter and all-season tires

Wheel	Cayenne, Cayenne Diesel Cayenne S, Cayenne S Diesel			Cayenne S E-Hybrid				
size	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
18-inch	2.5 bar (36 psi)	2.8 bar (41 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)	2.4 bar (35 psi)	2.9 bar (42 psi)	2.6 bar (38 psi)	3.2 bar (46 psi)
19-inch/ 20-inch	2.4 bar (35 psi)	2.6 bar (38 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)	2.4 bar (35 psi)	2.9 bar (42 psi)	2.6 bar (38 psi)	3.2 bar (46 psi)

	Cayenne GTS, Cayenne Turbo, Cayenne Turbo S					
Wheel size	Part	load	Full load			
	FA	RA	FA	RA		
19-inch/ 20-inch	2.4 bar (35 psi)	2.6 bar (38 psi)	2.6 bar (38 psi)	3.0 bar (44 psi)		

Incorrectly installed snow chains

- Uncontrollable vehicle handling
- \Rightarrow Do not exceed the maximum speed of Speed 30 mph/50 km/h.
- \Rightarrow Observe installation instructions from the chain manufacturer.
- Snow Chains: The best possible handling characteristics are achieved with 18-inch tires with snow chains installed on all 4 wheels on the vehicle, while it is also possible to install snow chains only on the rear axle. On vehicles with 19-inch and 20-inch tires, snow chains can only be installed on the rear axle. Only use snow chains together with all-season or winter tires.

Porsche offers the following snow chains as accessories:

Tire size	Porsche Part No.	Type of snow chain
255/55 R 18	958.044.600.13	Link-type chain, quick fit
265/50 R 19 275/45 R 20	958.044.600.14 ¹	Link-type chain, quick fit

¹ Only permitted on rear axle

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).

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- 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 guestion 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.

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.