

Manufacturer's Certificate

Macan (XAB)

35/24 ENU 4400

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Approved: Wheels and Tires (35/24)

Revision: This bulletin replaces bulletin Group 4 01/24, dated September 16, 2024.

Model Year: **As of 2024**

Vehicle Type: **Macan / Macan 4 / Macan 4S / Macan Turbo**

Cause: Approval status: August 2024

General Information: 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.



**Information**

In principle, only tires that at least correspond to the maximum vehicle speed may be installed on the vehicle.

There may be national exemptions for winter tires marked for M+S and 3PMSF (3 peak mountain snow flake), which also permit tires that do not correspond to the maximum vehicle speed.



**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" or "Right" = Directional mounting on specified side only.

**Information**

As a general rule, Porsche does not recommend having tires repaired. Local legislation must always be observed.

It is advisable to install winter tires for temperatures below 7 °C (44 °F), because the driving characteristics of summer tires and UHP tires are reduced at low temperatures. Subfreezing temperatures can cause permanent damage to summer tires and UHP tires.

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 this value is exceeded, we recommend that you replace both tires.

**Information**

For vehicles installed with 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. 95C 044 820 B (grained black) or 95C 044 820 C (painted in high-gloss black) must always be installed.

Sizes:

**technically permissible wheel/tire combinations**

(RO = rim offset in mm, FA = front axle, RA = rear axle)

Tires	Tire size	Wheel size	Snow chains
<b>Macan / Macan 4 / Macan 4S / Macan Turbo</b>			
Summer eDistance	FA: 235/55 R 20 105 Y XL RA: 285/45 R 20 112 Y XL	FA: 7.5J x 20, RO 32 RA: 10J x 20, RO 49	No
	FA: 255/45 R 21 106 Y XL RA: 295/40 R 21 111 Y XL	FA: 8.5J x 21, RO 27 RA: 10.5J x 21, RO 47	No
	FA: 255/40 R 22 103 Y XL RA: 295/35 R 22 108 Y XL	FA: 9J x 22, RO 29 RA: 11J x 22, RO 47	No
All-season (**)	FA: 235/55 R 20 105 V XL RA: 285/45 R 20 112 V XL	FA: 7.5J x 20, RO 32 RA: 10J x 20, RO 49	No
	FA: 255/45 R 21 106 V XL RA: 295/40 R 21 111 V XL	FA: 8.5J x 21, RO 27 RA: 10.5J x 21, RO 47	No
	FA: 255/40 R 22 103 V XL RA: 295/35 R 22 108 V XL	FA: 9J x 22, RO 29 RA: 11J x 22, RO 47	No
Winter	FA: 235/55 R 20 105 V XL RA: 285/45 R 20 112 V XL	FA: 7.5J x 20, RO 32 RA: 10J x 20, RO 49	RA only
	FA: 255/45 R 21 106 V XL RA: 285/40 R 21 109 V XL	FA: 8.5J x 21, RO 27 RA: 10.5J x 21, RO 47	RA only
	FA: 255/40 R 22 103 V XL RA: 295/35 R 22 108 V XL	FA: 9J x 22, RO 29 RA: 11J x 22, RO 47	No

**The country code for the specific. Vehicle can be found under VEHICLE SEARCH, GENERAL DATA, COUNTRY EQUIPMENT.**

Wheels:

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

Identification on the inside of the wheel:

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

**20-inch Macan standard wheel**

front 7.5J x 20, RO 32

Part No. 95C.601.025.B\_\_FFF

rear 10J x 20, RO 49

Part No. 95C.601.025.C\_\_FFF



*20-inch Macan standard wheel*

**20-inch Macan Turbo wheel**

front 7.5J x 20, RO 32

Part No. 95C.601.025.BN\_FFF

rear 10J x 20, RO 49

Part No. 95C.601.025.BP\_FFF



*20-inch Macan Turbo wheel*

**21-inch Macan TOP wheel**

front 8.5J x 21, RO 27

Part No. 95C.601.025.AT\_FFF

rear 10.5J x 21, RO 47

Part No. 95C.601.025.BA\_FFF

*21-inch Macan TOP wheel***21-inch Macan Design wheel**

front 8.5J x 21, RO 27

Part No. 95C.601.025.BB\_FFF

rear 10.5J x 21, RO 47

Part No. 95C.601.025.BC\_FFF

*21-inch Macan Design wheel***21-inch Macan Off-road Design wheel**

front 8.5J x 21, RO 27

Part No. 95C.601.025.BF\_FFF

rear 10.5J x 21, RO 47

Part No. 95C.601.025.BG\_FFF

*21-inch Macan Off-road Design wheel*

**22-inch Macan Sport wheel**

front 9J x 22, RO 29  
Part No. 95C.601.025.BH\_FFF  
  
rear 11J x 22, RO 47  
Part No. 95C.601.025.BJ\_FFF



*22-inch Macan Sport wheel*

**22-inch Macan Styling wheel**

front 9J x 22, RO 29  
Part No. 95C.601.025.BD\_FFF  
  
rear 11J x 22, RO 47  
Part No. 95C.601.025.BM\_FFF



*22-inch Macan Styling wheel*

**22-inch Macan RS Spyder wheel**

front 9J x 22, RO 29  
Part No. 95C.601.025.AD\_FFF  
  
rear 11J x 22, RO 47  
Part No. 95C.601.025.AE\_FFF  
  
or  
  
Front part No. 95C.601.029.D\_FFF  
Rear part No. 95C.601.029.E\_FFF



*22-inch Macan RS Spyder wheel*

**22-inch Macan Exclusive Design wheel (full aluminium)**

front 9J x 22, RO 29

Part No. left 95C.601.025.P\_\_FFF, right  
95C.601.025.Q\_\_FFF

rear 11J x 22, RO 47

Part No. left 95C.601.025.BK\_\_FFF, right  
95C.601.025.BL\_\_FFF*22-inch Macan Exclusive Design wheel (full aluminium)***22-inch Macan Exclusive Design wheel**

front 9J x 22, RO 29

Part no. left 95C.601.029.\_\_\_FFF, right  
95C.601.029.A\_\_FFF

rear 11J x 22, RO 47

Part no. left 95C.601.029.B\_\_FFF, right  
95C.601.029.C\_\_FFF*22-inch Macan Exclusive Design wheel*

**22-inch Macan Exclusive Design wheel  
(CRFP blade)**

front 9J x 22, RO 29

**Part No. left**

ASSY: 95C.601.018\_\_FFF / WHEEL:

95C.601.025.AH\_FFF /

PANEL: 95C.601.147

ASSY PANELS (carset): 95C.601.149.A / screw:

WHT.009.498

**Part No. right**

ASSY: 95C.601.018.A\_\_FFF / WHEEL:

95C.601.025.AJ\_FFF

PANEL: 95C.601.147.A

ASSY PANELS (carset): 95C.601.149.A / screw:

WHT.009.498

rear 11J x 22, RO 47

**Part No. left**

ASSY: 95C.601.018.B\_\_FFF / WHEEL:

95C.601.025.AK\_FFF /

PANEL: 95C.601.147.B

ASSY PANELS (carset): 95C.601.149.A / screw:

WHT.009.498

**Part No. right**

ASSY: 95C.601.018.C\_\_FFF / WHEEL:

95C.601.025.AL\_FFF

PANEL: 95C.601.147.C

ASSY PANELS (carset): 95C.601.149.A / screw:

WHT.009.498



*22-inch Macan Exclusive Design  
wheel (CRFP blade)*



**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 centring clamping set for balancing.

Do not use hard brushes to clean the wheels as these can cause deep scratches that cannot be removed by polishing.

Never use solvents or other chemical substances not approved by Porsche on tires.

Wheel  
Mounting:

**Tightening torque 160 Nm**

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**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 (NEO, NE1, NE2...) on a vehicle.

Summer Tires:

Model	Tire size	Tire make and type / Label value (link to EU database)
Macan / Macan 4 / Macan 4S / Macan Turbo	FA: 235/55 R 20 105 Y XL RA: 285/45 R 20 112 Y XL	Hankook veNtus S1 evo3 ev NEO FA: <a href="https://eprel.ec.europa.eu/qr/1125120">HTTPS://EPREL.EC.EUROPA.EU/QR/1125120</a> RA: <a href="https://eprel.ec.europa.eu/qr/1125117">HTTPS://EPREL.EC.EUROPA.EU/QR/1125117</a>
		Bridgestone Potenza Sport NEO FA: <a href="https://eprel.ec.europa.eu/qr/501412">HTTPS://EPREL.EC.EUROPA.EU/QR/501412</a> RA: <a href="https://eprel.ec.europa.eu/qr/501885">HTTPS://EPREL.EC.EUROPA.EU/QR/501885</a>
		Michelin Pilot Sport EV NEO FA: <a href="https://eprel.ec.europa.eu/qr/1492033">HTTPS://EPREL.EC.EUROPA.EU/QR/1492033</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492009">HTTPS://EPREL.EC.EUROPA.EU/QR/1492009</a>
		Pirelli P ZERO elect NEO FA: <a href="http://eprel.ec.europa.eu/qr/596476">HTTP://EPREL.EC.EUROPA.EU/QR/596476</a> RA: <a href="http://eprel.ec.europa.eu/qr/596477">HTTP://EPREL.EC.EUROPA.EU/QR/596477</a>
	FA: 255/45 R 21 106 Y XL RA: 295/40 R 21 111 Y XL	Bridgestone Potenza Sport NEO FA: <a href="https://eprel.ec.europa.eu/qr/501631">HTTPS://EPREL.EC.EUROPA.EU/QR/501631</a> RA: <a href="https://eprel.ec.europa.eu/qr/501951">HTTPS://EPREL.EC.EUROPA.EU/QR/501951</a>
		Michelin Pilot Sport EV NEO FA: <a href="https://eprel.ec.europa.eu/qr/1492032">HTTPS://EPREL.EC.EUROPA.EU/QR/1492032</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492010">HTTPS://EPREL.EC.EUROPA.EU/QR/1492010</a>
		Continental SportContact 6 NEO FA: <a href="https://eprel.ec.europa.eu/qr/648351">HTTPS://EPREL.EC.EUROPA.EU/QR/648351</a> RA: <a href="https://eprel.ec.europa.eu/qr/648350">HTTPS://EPREL.EC.EUROPA.EU/QR/648350</a>
		Goodyear Eagle F1 Supersport NEO FA: <a href="https://eprel.ec.europa.eu/qr/1416173">HTTPS://EPREL.EC.EUROPA.EU/QR/1416173</a>

Model	Tire size	Tire make and type / Label value (link to EU database)
		RA: <a href="https://eprel.ec.europa.eu/qr/1416161">HTTPS://EPREL.EC.EUROPA.EU/QR/1416161</a>
		Pirelli P ZERO elect NEO FA: <a href="http://eprel.ec.europa.eu/qr/596099">HTTP://EPREL.EC.EUROPA.EU/QR/596099</a> RA: <a href="http://eprel.ec.europa.eu/qr/596098">HTTP://EPREL.EC.EUROPA.EU/QR/596098</a>
		Bridgestone Potenza Sport NEO FA: <a href="https://eprel.ec.europa.eu/qr/501606">HTTPS://EPREL.EC.EUROPA.EU/QR/501606</a> RA: <a href="https://eprel.ec.europa.eu/qr/501947">HTTPS://EPREL.EC.EUROPA.EU/QR/501947</a>
	FA: 255/40 R 22 103 Y XL RA: 295/35 R 22 108 Y XL	Pirelli P ZERO elect NEO FA: <a href="http://eprel.ec.europa.eu/qr/596391">HTTP://EPREL.EC.EUROPA.EU/QR/596391</a> RA: <a href="http://eprel.ec.europa.eu/qr/596390">HTTP://EPREL.EC.EUROPA.EU/QR/596390</a>
		Goodyear Eagle F1 Supersport NEO FA: <a href="https://eprel.ec.europa.eu/qr/1413250">HTTPS://EPREL.EC.EUROPA.EU/QR/1413250</a> RA: <a href="https://eprel.ec.europa.eu/qr/1416162">HTTPS://EPREL.EC.EUROPA.EU/QR/1416162</a>
		P Zero Corsa elect NEO FA: <a href="http://eprel.ec.europa.eu/qr/596391">HTTP://EPREL.EC.EUROPA.EU/QR/596391</a> RA: <a href="http://eprel.ec.europa.eu/qr/596390">HTTP://EPREL.EC.EUROPA.EU/QR/596390</a>
	FA: 255/40 R 22 103 Y XL RA: 295/35 R 22 108 Y XL SuperSport	

All-season  
Tires:

Model	Tire size	Tire make and type / Label value (link to EU database)
<b>Macan / Macan 4 / Macan 4S / Macan Turbo</b>	FA: 235/55 R 20 105 V XL RA: 285/45 R 20 112 V XL	Michelin Pilot Sport A/S 4 NEO FA: <a href="https://eprel.ec.europa.eu/qr/1492441">HTTPS://EPREL.EC.EUROPA.EU/QR/1492441</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492453">HTTPS://EPREL.EC.EUROPA.EU/QR/1492453</a>
		Continental CrossContact RX NEO FA: <a href="https://eprel.ec.europa.eu/qr/658896">HTTPS://EPREL.EC.EUROPA.EU/QR/658896</a> RA: <a href="https://eprel.ec.europa.eu/qr/658895">HTTPS://EPREL.EC.EUROPA.EU/QR/658895</a>
		Pirelli Scorpion MS elect NEO FA: <a href="http://eprel.ec.europa.eu/qr/1426050">HTTP://EPREL.EC.EUROPA.EU/QR/1426050</a> RA: <a href="http://eprel.ec.europa.eu/qr/1560349">HTTP://EPREL.EC.EUROPA.EU/QR/1560349</a>
	FA: 255/45 R 21 106 VXL	Michelin Pilot Sport A/S 4 NEO

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Model	Tire size	Tire make and type / Label value (link to EU database)
	RA: 295/40 R 21 111 V XL	FA: <a href="https://eprel.ec.europa.eu/qr/1492428">HTTPS://EPREL.EC.EUROPA.EU/QR/1492428</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492429">HTTPS://EPREL.EC.EUROPA.EU/QR/1492429</a>
		Continental CrossContact RX NEO FA: <a href="https://eprel.ec.europa.eu/qr/658777">HTTPS://EPREL.EC.EUROPA.EU/QR/658777</a> RA: <a href="https://eprel.ec.europa.eu/qr/658779">HTTPS://EPREL.EC.EUROPA.EU/QR/658779</a>
		Pirelli Scorpion MS elect NEO FA: <a href="http://eprel.ec.europa.eu/qr/1595312">HTTP://EPREL.EC.EUROPA.EU/QR/1595312</a> RA: <a href="http://eprel.ec.europa.eu/qr/1560348">HTTP://EPREL.EC.EUROPA.EU/QR/1560348</a>
	FA: 255/40 R 22 103 V XL RA: 295/35 R 22 108 V XL	Michelin Pilot Sport A/S 4 NEO FA: <a href="https://eprel.ec.europa.eu/qr/1492442">HTTPS://EPREL.EC.EUROPA.EU/QR/1492442</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492430">HTTPS://EPREL.EC.EUROPA.EU/QR/1492430</a>
		Continental CrossContact RX NEO FA: <a href="https://eprel.ec.europa.eu/qr/1035137">HTTPS://EPREL.EC.EUROPA.EU/QR/1035137</a> RA: <a href="https://eprel.ec.europa.eu/qr/1035136">HTTPS://EPREL.EC.EUROPA.EU/QR/1035136</a>

Winter Tires:

Model	Tire size	Tire make and type / Label value (link to EU database)
<b>Macan / Macan 4 / Macan 4S / Macan Turbo</b>	FA: 235/55 R 20 105 V XL RA: 285/45 R 20 112 V XL	Michelin Pilot Alpine 5 SUV NEO FA: <a href="https://eprel.ec.europa.eu/qr/1492336">HTTPS://EPREL.EC.EUROPA.EU/QR/1492336</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492337">HTTPS://EPREL.EC.EUROPA.EU/QR/1492337</a>
		Pirelli Scorpion Winter 2 elect NEO FA: <a href="https://eprel.ec.europa.eu/qr/1419761">HTTPS://EPREL.EC.EUROPA.EU/QR/1419761</a> RA: <a href="https://eprel.ec.europa.eu/qr/1419760">HTTPS://EPREL.EC.EUROPA.EU/QR/1419760</a>
		Goodyear Ultragrip Performance Gen-1 NEO FA: <a href="https://eprel.ec.europa.eu/qr/1086352">HTTPS://EPREL.EC.EUROPA.EU/QR/1086352</a> RA: <a href="https://eprel.ec.europa.eu/qr/1046969">HTTPS://EPREL.EC.EUROPA.EU/QR/1046969</a>
	FA: 255/45 R 21 106 V XL RA: 285/40 R 21 109 V XL	Michelin Pilot Alpine 5 SUV NEO FA: <a href="https://eprel.ec.europa.eu/qr/1492335">HTTPS://EPREL.EC.EUROPA.EU/QR/1492335</a> RA: <a href="https://eprel.ec.europa.eu/qr/1492334">HTTPS://EPREL.EC.EUROPA.EU/QR/1492334</a>
		Continental WinterContact TS 860 S NEO

Model	Tire size	Tire make and type / Label value (link to EU database)
		FA: <a href="https://eprel.ec.europa.eu/qr/659132">HTTPS://EPREL.EC.EUROPA.EU/QR/659132</a> RA: <a href="https://eprel.ec.europa.eu/qr/658989">HTTPS://EPREL.EC.EUROPA.EU/QR/658989</a>
		Pirelli Scorpion Winter 2 elect NEO FA: <a href="https://eprel.ec.europa.eu/qr/1419759">HTTPS://EPREL.EC.EUROPA.EU/QR/1419759</a> RA: <a href="https://eprel.ec.europa.eu/qr/1419758">HTTPS://EPREL.EC.EUROPA.EU/QR/1419758</a>
	FA: 255/40 R 22 103 V XL RA: 295/35 R 22 108 V XL	Continental WinterContact TS 860 S NEO FA: <a href="https://eprel.ec.europa.eu/qr/659131">HTTPS://EPREL.EC.EUROPA.EU/QR/659131</a> RA: <a href="https://eprel.ec.europa.eu/qr/658964">HTTPS://EPREL.EC.EUROPA.EU/QR/658964</a>
		Pirelli Scorpion Winter 2 elect NEO FA: <a href="https://eprel.ec.europa.eu/qr/1419757">HTTPS://EPREL.EC.EUROPA.EU/QR/1419757</a> RA: <a href="https://eprel.ec.europa.eu/qr/1419756">HTTPS://EPREL.EC.EUROPA.EU/QR/1419756</a>

 **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. Recommendation: Replace tires that are more than 6 years old.**
- ⇒ **Perform visual inspections.**
- ⇒ **Use only tires approved 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. 20 °C/ 68 °F). The tire pressure must not be lower than the specified values.

## Tire pressure for summer, winter and all-season tires

Tires	Part load		Full load	
	FA	RA	FA	RA
<b>Macan / Macan 4 / Macan 4S / Macan Turbo: summer tires</b>				
235/55 R 20 285/45 R 20	2.5 bar (36 psi)	2.5 bar (36 psi)	2.8 bar (41 psi)	2.8 bar (41 psi)
255/45 R 21 295/40 R 21	2.5 bar (36 psi)	2.5 bar (36 psi)	2.8 bar (41 psi)	2.8 bar (41 psi)
255/40 R 22 295/35 R 22	2.7 bar (39 psi)	2.7 bar (39 psi)	3.0 bar (44 psi)	3.0 bar (44 psi)
<b>Macan / Macan 4 / Macan 4S / Macan Turbo: All-season tires</b>				
235/55 R 20 285/45 R 20	2.8 bar (41 psi)	2.8 bar (41 psi)	3.1 bar (45 psi)	3.1 bar (45 psi)
255/45 R 21 295/40 R 21	2.8 bar (41 psi)	2.8 bar (41 psi)	3.1 bar (45 psi)	3.1 bar (45 psi)
255/40 R 22 295/35 R 22	3.0 bar (44 psi)	3.0 bar (44 psi)	3.3 bar (48 psi)	3.3 bar (48 psi)
<b>Macan / Macan 4 / Macan 4S / Macan Turbo: Winter tires</b>				
235/55 R 20 285/45 R 20	2.8 bar (41 psi)	2.8 bar (41 psi)	3.1 bar (45 psi)	3.1 bar (45 psi)
255/45 R 21 285/40 R 21	2.8 bar (41 psi)	3.0 bar (44 psi)	3.1 bar (45 psi)	3.3 bar (48 psi)
255/40 R 22 295/35 R 22	3.0 bar (44 psi)	3.0 bar (44 psi)	3.3 bar (48 psi)	3.3 bar (48 psi)

**⚠ WARNING****Incorrectly installed snow chains**

- **Uncontrollable vehicle handling**
- ⇒ Do not exceed top speed of 50 km/h (30 mph).
- ⇒ Read assembly instructions (see also TEQUIPMENT accessory finder on the Internet).
- ⇒ Observe country-specific regulations.

Snow Chains: Porsche offers the following snow chains as accessories:

Tire size - RA	Porsche Part No.	Type of snow chain
285/45 R 20 112 V XL M+S 285/40 R 21 109 V XL M+S	95C.044.690	Link-type chain, quick fit

- 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.

**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.

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