

Manufacturer's Certificate

Freigabe/Approval

58/20 ENU 4400

4

Approved Tires, Wheels and Spacers (58/20)

Revision: This bulletin replaces bulletin Group 4 08/11, dated May 26, 2011.

Model Year: As of 1989 up to 1994

Vehicle Types 911 Carrera 2 and 4/911 Speedster/911 Carrera RS/911 Turbo/911 Turbo S/911 Turbo 3.6/911 Carrera 2 Cabriolet "Turbo Look"/911 Carrera 4 Cabriolet "Turbo Look" (964 type series)

Information: Approved tires



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.

Makes/Types:

Summer tire approvals		
Tire size	Tire make and type	Comments / Label value (Link to EU database)
205/55 ZR16 (FA) 225/50 ZR16 (RA)	Pirelli P-Zero Rosso Asimmetrico N5	964 Carrera 2 mod. 90—94 FA: https://eprel.ec.europa.eu/qr/596145 RA: https://eprel.ec.europa.eu/qr/596144
	Michelin Pilot Exalto 2 NO	964 Carrera 4 964 Carrera 2/4 narrow version (vehicle width: 1,652 mm) FA: https://eprel.ec.europa.eu/qr/408538 RA: https://eprel.ec.europa.eu/qr/412732
	Continental ContiSport-Contact N2	964 Carrera RS mod. 92 FA/RA: Data currently not available
	Pirelli P Zero Trofeo R NO (Ultra High Performance tires)	964 Speedster mod. 93 and 94 FA: https://eprel.ec.europa.eu/qr/621929 RA: https://eprel.ec.europa.eu/qr/621931

	Pirelli P-Zero Dir. N3	964 Carrera 2/4 narrow version (vehicle width: 1,652 mm)
	Continental ContiSport-Contact N1	FA/RA: Data currently not available
205/55 ZR 16 (FA) 245/45 ZR 16 (RA)	Continental ContiSport-Contact N2	964 Carrera 4 FA/RA: Data currently not available
	Pirelli P-Zero Rosso Asimmetrico N5	964 Carrera RS mod. 92 FA: https://eprel.ec.europa.eu/qr/596145 RA: https://eprel.ec.europa.eu/qr/596143
	Pirelli P Zero Trofeo R NO (Ultra High Performance tires)	964 Carrera RS mod. 92 FA: https://eprel.ec.europa.eu/qr/621929 RA: https://eprel.ec.europa.eu/qr/621932
	Yokohama 8008P NO	964 Carrera RS mod. 92 FA/RA: Data currently not available
	Bridgestone Potenza S-02 N3	964 Carrera 2/4 narrow version (vehicle width: 1,652 mm) FA/RA: Data currently not available
	Continental ContiSport-Contact N1	964 Carrera 2/4 narrow version (vehicle width: 1,652 mm) FA/RA: Data currently not available
	205/50 ZR 17 (FA) 255/40 ZR 17 (RA)	Pirelli P Zero Rosso Asimmetrico N5
Pirelli P Zero Rosso Asimmetrico N5		964 Carrera 2 mod. 90—94 964 Turbo mod. `91 and `92 FA: https://eprel.ec.europa.eu/qr/596142 RA: https://eprel.ec.europa.eu/qr/596140
Continental ContiSport-Contact2 N2		964 Carrera 4 964 Turbo S mod. 92

		<p>964 Carrera 2/4 narrow version (vehicle width: 1,652 mm)</p> <p>964 Turbo, 964 Carrera RS, 964 Speedster and 964 RS America</p> <p>FA/RA: Data currently not available</p>
	Michelin Pilot Sport 2 N3	<p>964 Carrera RS mod. 92</p> <p>964 C2 "Turbo look" mod. 92 — 93</p> <p>964 Carrera 2/4 narrow version (vehicle width: 1,652 mm)</p> <p>964 Turbo, 964 Carrera RS, 964 Speedster and 964 RS America</p> <p>FA: https://eprel.ec.europa.eu/qr/409007 RA: https://eprel.ec.europa.eu/qr/412056</p>
	Pirelli P Zero Trofeo R N0 (Ultra High Performance tires)	<p>964 Speedster mod. 93 and 94</p> <p>964 C4 "Turbo Look" mod. 93 and 94</p> <p>FA: https://eprel.ec.europa.eu/qr/621929 RA: Data currently not available</p>
	Bridgestone Potenza S-02A N4	<p>964 Carrera 2/4 narrow version (vehicle width: 1,652 mm)</p> <p>964 Turbo, 964 Carrera RS, 964 Speedster and 964 RS America</p> <p>FA/RA: Data currently not available</p>
	Bridgestone Potenza S-02 N3	<p>964 Turbo, 964 Carrera RS, 964 Speedster and 964 RS America</p> <p>FA/RA: Data currently not available</p>
225/45 ZR 17 (FA) 275/35 ZR 17 (RA)	Bridgestone S01 N0	<p>964 Turbo, 964 Carrera 2 Cabriolet "Turbo Look", 964 Carrera 4 Cabriolet "Turbo Look", 964 America Roadster</p> <p>FA/RA: Data currently not available</p>
	Pirelli P Zero Rosso Asimmetrico N5	<p>964 Turbo mod. `91 and `92</p> <p>964 Turbo S mod. 92</p> <p>964 C2 "Turbo look" mod. 92 — 93</p> <p>964 C4 "Turbo Look" mod. 93 and 94</p> <p>FA: https://eprel.ec.europa.eu/qr/596141</p>

		RA: https://eprel.ec.europa.eu/qr/621926
225/40 ZR 18 (FA) 265/35 ZR 18 (RA)	Pirelli P Zero Rosso Asimmetrico N4	964 Turbo 3.6 mod. 93 and 94 FA: Data currently not available RA: https://eprel.ec.europa.eu/qr/595111
	Bridgestone Potenza S-02A N3	964 Turbo 3.6 mod. 93 and 94 FA/RA: Data currently not available
	Continental ContiSport- Contact2 N2	964 Turbo 3.6 mod. 93 and 94 FA/RA: Data currently not available
	Michelin Pilot Sport 2 N3	964 Turbo 3.6 mod. 93 and 94 FA: https://eprel.ec.europa.eu/qr/411351 RA: https://eprel.ec.europa.eu/qr/412881
	Pirelli P Zero Trofeo R NO (Ultra High Performance tires)	964 Turbo 3.6 mod. 93 and 94 FA: https://eprel.ec.europa.eu/qr/621936 RA: https://eprel.ec.europa.eu/qr/621937



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.



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.**

Wheel Mounting: The tightening torque for securing wheels and spacers is **130 Nm (96 ftlb.)**.

Sizes: **Permissible summer tires and wheel sizes - 911 Carrera 2, 911 Carrera 4, 911 Carrera RS, 911 Speedster (RO = rim offset in mm)**

Tires	Wheels	Notes
205/55 ZR 16 (FA) 225/50 ZR 16 (RA)	6J x 16, RO 52/52.3	
205/55 ZR 16 (FA) 245/50 ZR 16 (RA)	8J x 16, RO 52/52.3	
205/55 ZR 16 (FA) 245/45 ZR 16 (RA)	7J x 16, RO 55 9J x 16 RO 52.3 (17-mm spacers on rear axle)	Modification "M1" Snow chains cannot be installed Not for 964 Carrera 2, 964 Speedster
205/50 ZR 17 (FA) 255/40 ZR 17 (RA)	7J x 17, RO 55 8J x 17, RO 52	Modifications "M1/M2" Snow chains cannot be installed Only for 964 Speedster and 964 RS America
	7J x 17, RO 55 9J x 17, RO 55	Modifications "M1/M2" Snow chains cannot be installed Only for 964 Carrera RS

Permissible summer tire and wheel sizes for the 911 Turbo, 911 Turbo S, 911 Carrera 2 Cabriolet "Turbo Look", 911 Carrera 4 Cabriolet "Turbo Look", 964 America Roadster

Tires	Wheels	Notes
205/50 ZR 17 (FA)	7J x 17, RO 55	Modifications "M3/M4" Check wheel clearance Snow chains cannot be installed
255/40 ZR 17 (RA)	9J x 17 RO 55	
225/45 ZR 17 (FA)	8J x 17, RO 52	
275/35 ZR 17 (RA)	9.5J x 17 RO 68 (17-mm spacers on rear axle)	
225/40 ZR 18 (FA)	7J x 18, RO 55	Only on Turbo 3.6
265/35 ZR 18 (RA)	9J x 18, RO 55	Snow chains cannot be installed

Permissible summer tires and wheel sizes for 911 Turbo 3.6

Tires	Wheels	Comments
225/40 ZR 18 (FA)	8J x 18, RO 52	Snow chains cannot be installed
265/35 ZR 18 (RA)	10J x 18, RO 65/61	

Makes/Types:

Winter tire approval			
Tire size	Tire make and type	Snow chain clearance (only without spacers)	Comments / Label value (Link to EU database)
205/55 R 16 M+S (FA, RA) 225/50 R16 M+S (RA)	Pirelli W240 Sottozero Standard II N2	yes	964 Carrera 2, 964 Carrera 4, 964 Carrera RS, 964 Speedster FA, RA: https://eprel.ec.europa.eu/qr/596139 RA: https://eprel.ec.europa.eu/qr/596138
205/50 R17 M+S (FA) 255/40 R17 M+S (RA)	Pirelli Winter Sottozero 3 N2	no	964 Carrera 2, 964 Carrera 4, 964 Carrera RS, 964 Speedster 964 Turbo mod. 91 — 92, 964 Turbo S mod. 92, 964 Turbo look mod. 91 — 94 964 Turbo mod. 93 — 94 FA: https://eprel.ec.europa.eu/qr/595707 RA: https://eprel.ec.europa.eu/qr/595709
225/40 R18 M+S (FA)	Pirelli Winter Sottozero 3 N4	no	964 Turbo mod. 93 — 94 FA: https://eprel.ec.europa.eu/qr/595710

265/35 R18 M+S (RA)				RA: https://eprel.ec.europa.eu/qr/621928
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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 new rubber valves at every tire change.
- ⇒ Use only tires approved by Porsche.

Sizes: **Permissible winter tires and wheel sizes - 911 Carrera 2, 911 Carrera 4, 911 Carrera RS, 911 Speedster (RO = rim offset in mm)**

Tires	Wheels
205/55 R16 MS (FA)	6J x 16, RO 52.3/55
205/55 R16 M+S (RA)	8J x 16, RO 52.3/55
225/50 R16 M+S (RA)	8J x 16, RO 52.3/55
205/50 R17 M+S (FA)	7J x 17, RO 55
255/40 R17 M+S (RA)	8J x 17, RO 52
255/40 R17 M+S (RA)	9J x 17, RO 55

Permissible winter tire and wheel sizes: 911 Turbo mod. 91 — 92, 911 Turbo S mod. 92, 911 Carrera 2 Cabriolet "Turbo Look" mod. 91 — 94, 911 Carrera 4 Cabriolet "Turbo Look" mod. 91 — 94

Tires	Wheels
205/50 R17 M+S (FA)	7J x 17, RO 55
255/40 R17 M+S (RA)	8J x 17, RO 52
255/40 R17 M+S (RA)	9J x 17, RO 55

Permissible winter tire and wheel sizes: 911 Turbo mod. 93 — 94

Tires	Wheels
205/50 R17 M+S (FA)	7J x 17, RO 55
255/40 R17 M+S (RA)	8J x 17, RO 52
255/40 R17 M+S (RA)	9J x 17, RO 55
225/40 R18 M+S (FA)	8J x 18, RO 52/50
265/35 R18 M+S (RA)	10J x 18, RO 65/61

Tire Pressure:

	16-inch wheels	17-inch wheels	18-inch wheels
Front axle	2.5 bar	2.5 bar	2.5 bar
Rear axle	3.0 bar	3.0 bar	3.0 bar



Information

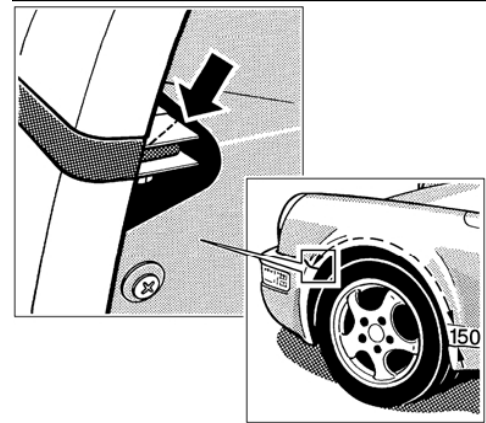
The tire pressure applies only to the tire makes and types approved by Porsche, and is specified for cold tires (approx. **68° F/20°C**). The tire pressures must never be lower than the specified values.

Modifications: **"M1"** = Limit steering-angle by replacing left and right stop washer (Part No. 964.347.325.02). Not necessary for model year 1992 vehicles as of vehicle identification numbers WPO ZZZ 96 ZNS 40 0552 (Coupé), WPO ZZZ 96 ZNS 43 0124 (Targa) and WPO ZZZ 96 ZNS 45 0227 (Cabriolet).

"M2" = On the front axle, make sure that the wing seam does not project over the front apron at the outer connection point between the front apron and the wings. The wing seam on these vehicles may have to be reworked in this area.

"M3" = On the front axle, the entire area of the wing seam is to be flanged, beginning 150 mm above the side skirt up to the front apron; never grind down. In addition, the wing seam must be trimmed at the transition point.

"M4" = A 17-mm spacer, Part No. 996.361.617.00, must be installed on each wheel on the rear axle.



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

Identification on the inside/outside of the wheel disc:

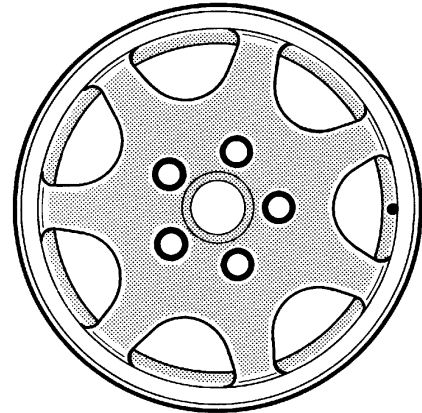
Wheel size, rim offset (RO) in mm, Part No. and Porsche logo

6J x 16 H2 RO 52.3

7J x 16 H2 RO 55

8J x 16 H2 RO 52.3

9J x 16 H2 RO 52.3



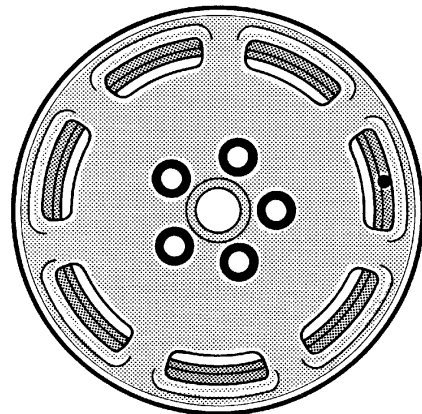
16-inch Design 90 wheel

6J x 16 H2 RO 52.3

6J x 16 H2 RO 52.3

8J x 16 H2 RO 52.3

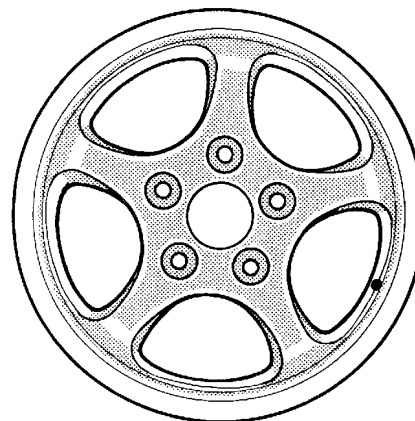
8J x 16 H2 RO 52.3



Alloy, forged

6J x 16 H2 RO 52

8J x 16 H2 RO 52



16-inch Cup Design wheel

7J x 17 AH RO 55

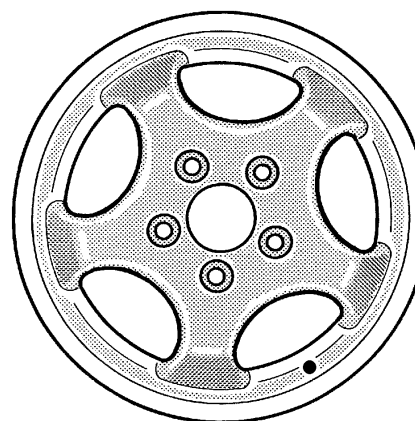
8J x 17 AH RO 52

9J x 17 AH RO 55

9.5J x 17 AH RO 68

7.5J x 17 AH RO 55

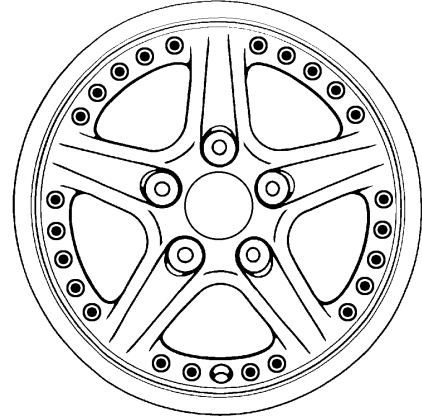
9J x 17 AH RO 55



17-inch Cup Design wheel

7J x 17 H2 RO 55

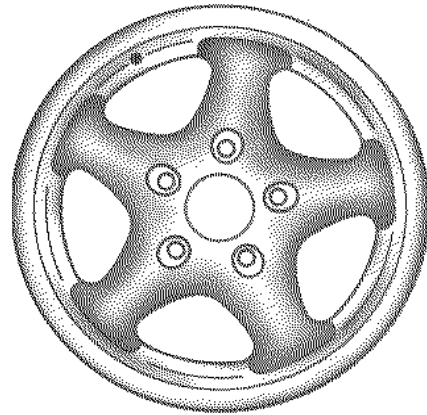
9J x 17 H2 RO 55



17-inch Targa wheel

7J x 17 H2/AH RO 55

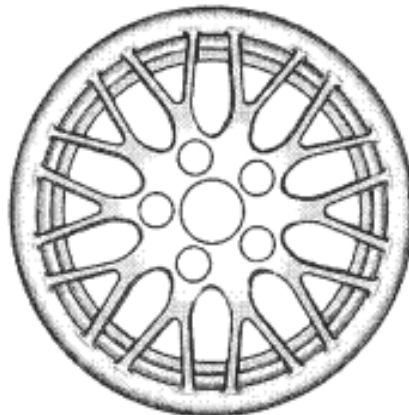
9J x 17 H2/AH RO 55



17-inch Cup Design 93 wheel

7J x 17 H2 RO 55

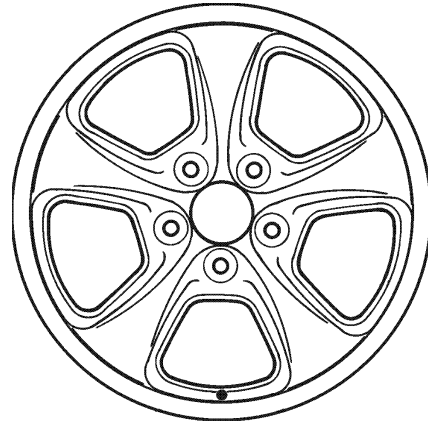
9J x 17 H2 RO 55



17-inch SportClassic wheel

7J x 17 H2 RO 55

9J x 17 H2 RO 55



17-inch Carrera 4 wheel

7J x 17 H2 RO 55

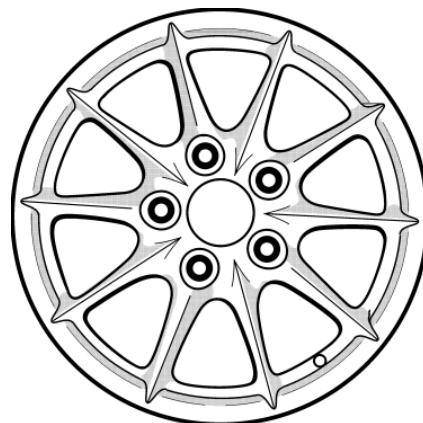
9J x 17 H2 RO 55



17-inch Carrera wheel

7J x 17 H2 RO 50

9J x 17 H2 RO 55



17-inch Carrera II wheel

7J x 18 H2 RO 55

9J x 18 H2 RO 55

8J x 18 H2 RO 52

10J x 18 H2 RO 65/61

8J x 18 H2 RO 52/50

10J x 18 H2 RO 65/61

Wheel
mounting:

The tightening torque for securing wheels and spacers is **130 Nm (96 ftlb.)**.

- 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.

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