

Manufacturer's Certificate

911 (993)

62/20 ENU 4440

4

Approved Tires, Wheels and Spacers (62/20)

Revision: This bulletin replaces bulletin Group 4 07/11 and 11/11, dated May 26, 2011.

Model Year: **As of 1994 up to 1998**

Vehicle Types: **911 Carrera / 911 Carrera 4 / 911 Targa / 911 Carrera RS / 911 Turbo / 911 Carrera S / 911 Carrera 4S / / 911 GT 2 (993)**

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.**

MakesTypes:

Summer tire approvals		
Tire size	Tire make and type	Comments / Label value (Link to EU database)
Carrera / Carrera 4 / Targa / Carrera RS		
205/55 ZR16 (FA) 245/45 ZR16 (RA)	Continental ContiSport-Contact N1	Not for 993 Carrera RS FA/RA: Data currently not available
	Continental ContiSport-Contact N2	993 Carrera mod. 94 — 98 FA/RA: Data currently not available
	Pirelli P Zero Rosso Asimmetrico N5	993 Carrera mod. 94 — 98 FA: https://eprel.ec.europa.eu/qr/596145 RA: https://eprel.ec.europa.eu/qr/596143
	Pirelli P Zero Trofeo R NO (UHP tires) NO	993 Carrera mod. 94 — 98 FA: https://eprel.ec.europa.eu/qr/621929 RA: https://eprel.ec.europa.eu/qr/621932
	Yokohama 8008P NO	993 Carrera mod. 94 — 98 FA/RA: Data currently not available

205/50 ZR17 (FA) 255/40 ZR17 (RA)	Pirelli P Zero Rosso Asimmetrico N5	Not for 993 Carrera RS 993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 993 Carrera S mod. 97 and 98 FA: https://eprel.ec.europa.eu/qr/596142 RA: https://eprel.ec.europa.eu/qr/596140
	Bridgestone Potenza S-02A N4	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 993 Carrera S mod. 97 and 98 Not for 993 Carrera RS FA/RA: Data currently not available
	Continental ContiSport- Contact2 N2	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 993 Carrera S mod. 97 and 98 Not for 993 Carrera RS FA/RA: Data currently not available
	Michelin Pilot Sport 2 N3	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 993 Carrera S mod. 97 and 98 Not for 993 Carrera RS FA: https://eprel.ec.europa.eu/qr/409007 RA: https://eprel.ec.europa.eu/qr/412056
	Pirelli P Zero Trofeo R NO (UHP tires) NO	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 993 Carrera S mod. 97 and 98 FA: https://eprel.ec.europa.eu/qr/621935 RA: https://eprel.ec.europa.eu/qr/621934

225/40 ZR18 (FA) 265/35 ZR 18 (RA)	Pirelli P Zero N4	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 Not for Targa all model years. Not for Cabriolet before model year 1996 (T). FA/RA: Data currently not available
	Bridgestone Potenza S-02A N3	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 Not for Targa all model years. Not for Cabriolet before model year 1996 (T). FA/RA: Data currently not available
	Continental ContiSport-Contact2 N2	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 Not for Targa all model years. Not for Cabriolet before model year 1996 (T). FA/RA: Data currently not available
	Pirelli P Zero Trofeo R NO (UHP tires) NO	993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 Not for Targa all model years. Not for Cabriolet before model year 1996 (T). FA: https://eprel.ec.europa.eu/qr/621936 RA: https://eprel.ec.europa.eu/qr/621937

Tire size	Tire make and type	Comments
Turbo / Carrera S / Carrera 4S / GT 2		
205/50 ZR17 (FA) 255/40 ZR17 (RA)	Pirelli P-Zero Rosso N3	Only for 993 Carrera S
	Bridgestone Potenza S-02A N4	
	Continental ContiSport-Contact2 N2	
	Michelin PilotSport PS2 N3	
235/40 ZR18 (FA) 285/30 ZR18 (RA) 295/30 ZR18 (RA)	Pirelli P Zero Rosso N4	993 GT2 mod. 96 — 97
225/40 ZR18 (FA) 285/30 ZR18 (RA)	Pirelli P Zero Rosso N4 Bridgestone Potenza S-02A N3 Continental ContiSport-Contact2 N2 Michelin Pilot Sport 2 N3	993 Turbo 993 Carrera S 993 Carrera 4S 993 Turbo-Look

Makes/Types:

Winter tire approval			
Tire size	Tire make and type	Snow-chain clearance	Comments / Label value (Link to EU database)
Carrera / Carrera 4 / Targa / Carrera RS / Turbo / Carrera S / Carrera 4S / GT 2			
205/50 R17 M+S (FA) 255/40 R17 M+S (RA)	Pirelli Winter Sottozero 3 N2	No	Not for 993 Targa FA: https://eprel.ec.europa.eu/qr/595707 RA: https://eprel.ec.europa.eu/qr/595709
225/40 R18 M+S (FA) 265/35 R18 M+S (RA)	Pirelli Winter Sottozero 3 N4	No	Not for Cabriolet before model year 1996 (T). Not for 993 Targa FA: https://eprel.ec.europa.eu/qr/595710 RA: https://eprel.ec.europa.eu/qr/621928

**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.

Modified adjustment values on the rear axle, standard as of vehicle identification number WPOZZZ99ZRS315598 (Coupé) or WPOZZZ99ZRS331425 (Cabriolet) and all vehicles with sports chassis "P31" before the vehicle identification numbers specified.

Camber	-1° 10'
Toe-in	+10'

Before model year 1996 (T) only Coupe vehicles **within** the following vehicle identification number ranges may be retrofitted with 18-inch wheels:

WPO AA2 99 8SS 32 2696 up to WPO ZZZ 99 8SS 32 4139 (USA and Canada).

A transverse strut, Part No. 993.347.131.02 (left-hand drive) must also be installed between the steering gear fastening clamps, together with longer hexagon socket head bolts.

Vehicles were produced within the specified vehicle identification number ranges which were not equipped with the body structure reinforcements necessary for 18-inch wheels. These vehicles cannot be retrofitted with 18-inch wheels. The vehicle identification numbers of these vehicles are listed at the end of this Manufacturer Approval document.

**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.**

Tire pressure:

	16-inch wheels	17-inch wheels	18-inch wheels
Front axle	2.5 bar (36 psi)	2.5 bar (36 psi)	2.5 bar (36 psi)
Rear axle	3.0 bar (44 psi)	2.5 bar (36 psi)	3.0 bar (44 psi)

**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.

Sizes:

Permissible summer tire, wheel and spacer sizes (RO = rim offset in mm)

Tires	Wheels	Comments
Carrera / Carrera 4 / Targa / Carrera RS		
205/55 ZR16 (FA) 245/45 ZR16 (RA) Not for Carrera RS	7 J x 16, RO 55 9 J x 16, RO 70	5-mm spacers permitted on the front axle, Part No. 996.361.605.90 (The spacer must be removed when fitting the cams.) 993 Carrera mod. 94 — 98: Snow chains cannot be installed.
205/55 ZR16 (FA) 245/45 ZR16 (RA) Not for Carrera RS	7 J x 16, RO 55 9 J x 16, RO 70	5-mm spacers permitted on the front axle, Part No. 996.361.605.90 and 17 mm spacers on the rear axle; Part No. 996.361.605.00 (The spacer must be removed when fitting the cams.) 993 Carrera mod. 94 — 98: Snow chains cannot be installed.
205/50 ZR17 (FA) ¹ 255/40 ZR17 (RA)	7 J x 17, RO 50 9 J x 17, RO 55 Changed adjustment values on the front axle, see information under "Makes/Types".	Snow chains cannot be installed
205/50 ZR17 (FA) 255/40 ZR17 (RA) Not for Carrera RS	7 J x 17, RO 55 9 J x 17, RO 55 Changed adjustment values on the front axle, see information under "Makes/Types".	5-mm spacers permitted on the front axle, Part No. 996.361.605.90 (The spacer must be removed when fitting the cams.) 993 Carrera mod. 94 — 98 993 Carrera RS mod. 95 and 96 993 Carrera S mod. 97 and 98 Snow chains cannot be installed.

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<p>205/50 ZR17 (FA) 255/40 ZR17 (RA) Not for Carrera RS</p>	<p>7 J x 17, RO 55 9 J x 17, RO 70 Changed adjustment values on the front axle, see information under "Makes/Types".</p>	<p>5-mm spacers permitted on the front axle, Part No. 996.361.605.90 (The spacer must be removed when fitting the cams.) Snow chains cannot be installed.</p>
<p>225/40 ZR18 (FA) 265/35 ZR18 (RA)</p>	<p>8 J x 18, RO 50/52 10 J x 18, RO 65 Changed adjustment values on the front axle, see information under "Makes/Types". Changed adjustment values on the front axle, see information under "Makes/Types".</p>	<p>Not for Targa - all model years. Not for Cabriolet before model year 1996 (T). 993 Carrera mod. 94 — 98 993 Carrera RS 95 and 96 Snow chains cannot be installed.</p>

Tires	Wheels	Comments
Turbo / Carrera S / Carrera 4S / GT 2		
<p>205/50 ZR 17 (FA) 255/40 ZR 17 (RA)</p>	<p>7 J x 17, RO 50 9 J x 17, RO 55</p>	<p>Only for Carrera S Only permitted with a 31-mm wheel spacer, Part No. 996.361.631.00 (The spacer must be removed when fitting the cams), on each wheel on the rear axle. Snow chains cannot be installed.</p>
<p>205/50 ZR 17 (FA) 255/40 ZR 17 (RA)</p>	<p>7 J x 17, RO 50 9 J x 17, RO 55</p>	<p>Only for Carrera S 5-mm spacer permitted on each wheel on the front axle, Part No. 996.361.605.90 (The spacer must be removed when fitting the cams.) Only permitted on the rear axle with a 31-mm thick wheel spacer, Part No. 996.361.631.00 (The spacer must be removed when fitting the cams), on each wheel. Snow chains cannot be installed.</p>

225/40 ZR 18 (FA) 285/30 ZR 18 (RA)	8 J x 18, RO 50 10 J x 18, RO 65	Only permitted with a 25-mm wheel spacer, Part No. 996.361.625.00 (The spacer must be removed when fitting the cams), on each wheel on the rear axle. Snow chains cannot be installed.
225/40 ZR 18 (FA) 285/30 ZR 18 (RA)	8 J x 18, RO 52 10 J x 18, RO 40	Snow chains cannot be installed.
225/40 ZR 18 (FA) 285/30 ZR 18 (RA)	8 J x 18, RO 50 10 J x 18, RO 47	Only permitted with a 5-mm wheel spacer, Part No. 996.361.605.00 (The spacer must be removed when fitting the cams), on each wheel on the rear axle. Snow chains cannot be installed.
225/40 ZR 18 (FA) 285/30 ZR 18 (RA)	8 J x 18, RO 52 10 J x 18, RO 65	Only permitted with a 25-mm wheel spacer, Part No. 996.361.625.00 (The spacer must be removed when fitting the cams), on each wheel on the rear axle. Snow chains cannot be installed.
235/40 ZR18 (FA) 285/30 ZR18 (RA) 295/30 ZR18 (RA)	8 J x 18, RO 52 10 J x 18, RO 40 10 J x 18, RO 40	993 GT 2 mod. 96 and 97 Snow chains cannot be installed.
225/40 ZR18 (FA) 285/30 ZR18 (RA)	8 J x 18, RO 52 10 J x 18, RO 40 10 J x 18, RO 65 (25-mm spacers on rear axle)	993 Turbo 993 Carrera S 993 Carrera 4S 993 Turbo-Look Snow chains cannot be installed.

Sizes:

Permissible winter tire, wheel and spacer sizes (RO = rim offset in mm)

Tires	Wheels	Snow chain clearance	Comments
205/50 R17 M+S (FA) 255/40 R17 M+S (RA)	7 J x 17, RO 55 9 J x 17, RO 55	No	993 Carrera 993 Carrera 4 993 Carrera RS
225/40 R18 M+S (FA) 225/40 R18 M+S (FA) 265/35 R18 M+S (RA)	7.5 J x 18, RO 52 8 J x 18, RO 52/50 10 J x 18, RO 65	No	993 Carrera 993 Carrera 4 993 Carrera RS Not for Targa all model years. Not for Cabriolet before model year 1996 (T).
205/50 R17 M+S (FA) 255/40 R17 M+S (RA)	7 J x 17, RO 55 9 J x 17, RO 55 ³	No	993 Carrera S 993 Carrera 4S 993 Turbo 993 GT 2
225/40 R18 M+S (FA) 225/40 R18 M+S (FA) 265/35 R18 M+S (RA)	7.5 J x 18, RO 52 8 J x 18, RO 52/50 10 J x 18, RO 65 ³	No	

- 1 Not for Carrera RS.
- 2 The spacer must be removed when fitting the spare wheel.
- 3 Changed adjustment values on the front axle, see information under "Makes/Types".

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

Front: 7 J x 16 H2, RO 55

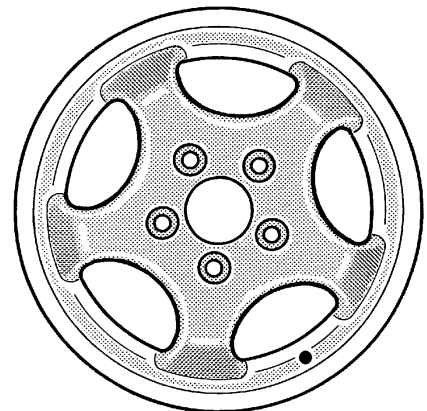
rear 9 J x 16 H2, RO 70



16-inch Cup Design 93 wheel

front: 7 J x 17 AH, RO 55

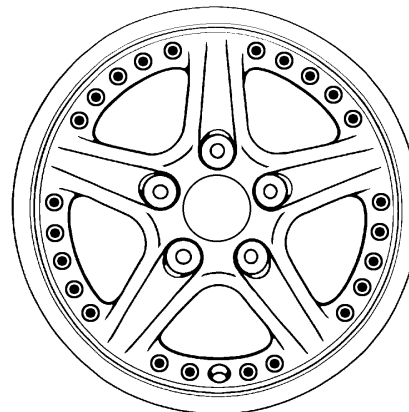
Rear: 9 J x 17 AH, RO 52



17-inch Cup Design wheel

Front: 7 J x 17 H2, RO 55

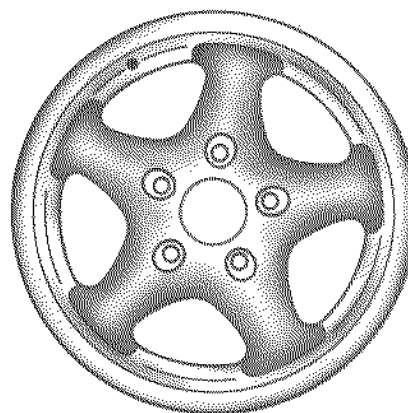
rear 9 J x 17 H2, RO 55



17-inch Targa wheel

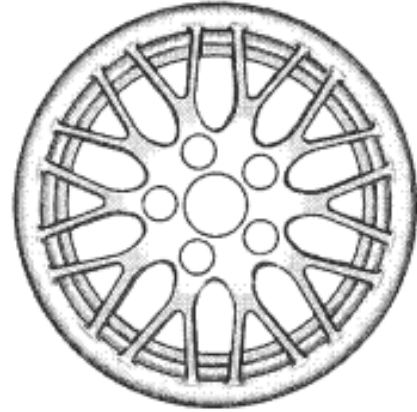
Front: 7 J x 17 H2/AH, RO 55

Rear: 9 J x 17 H2/AH, RO 55/70



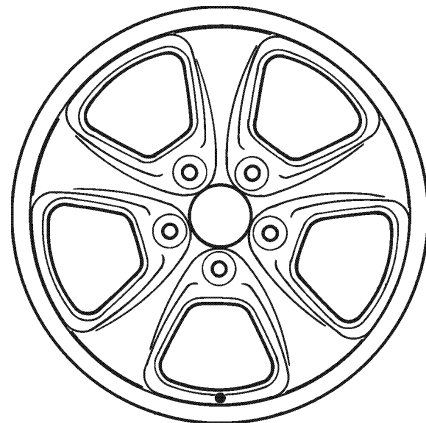
17-inch Cup Design 93 wheel

Front: 7 J x 17 H2, R0 55
rear 9 J x 17 H2, R0 55



17-inch SportClassic wheel

Front: 7 J x 17 H2, R0 55
rear 9 J x 17 H2, R0 55



17-inch Carrera 4 wheel

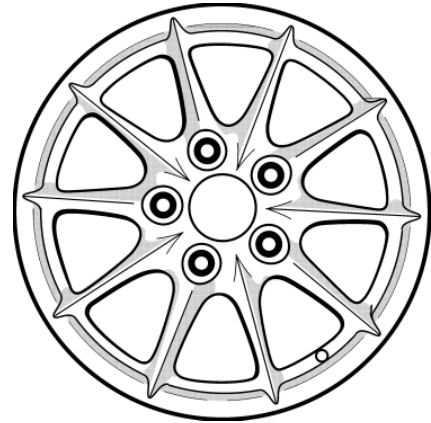
Front: 7 J x 17 H2, RO 55

rear 9 J x 17 H2, RO 55



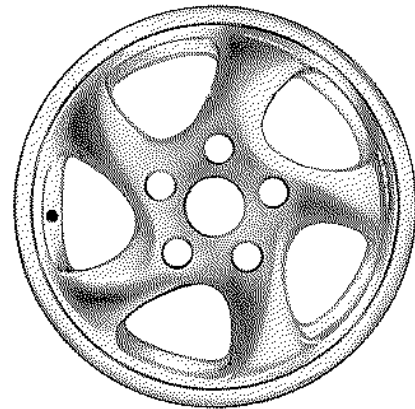
17-inch Carrera wheel

Front: 7 J x 17 H2, RO 50
rear 9 J x 17 H2, RO 55



17-inch Carrera II wheel

Front: 8 J x 18 H2, RO 52
rear 10 J x 18 H2, RO 65

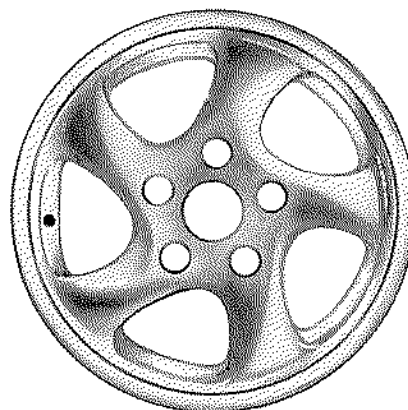


18-inch Turbo I wheel

front: 7.5J x 18 H2, RO 52
front: 8J x 18 H2, RO 52/50
rear 10 J x 18 H2, RO 65

Front: 8 J x 18 H2, RO 52

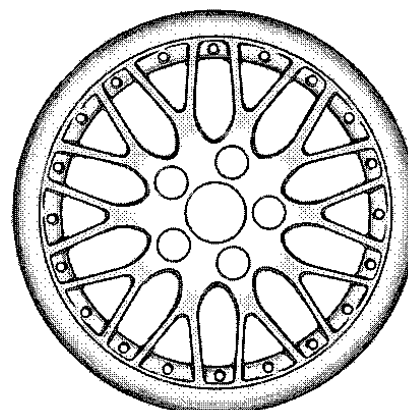
rear 10 J x 18 H2, RO 65



18-inch Turbo Look I wheel

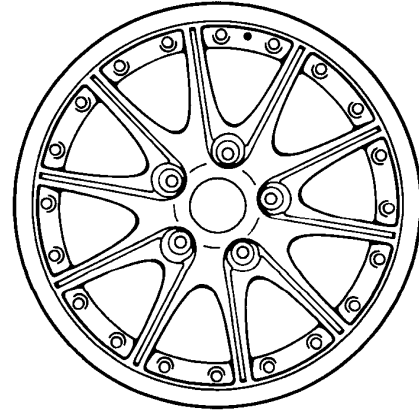
Front: 8 J x 18 H2, RO 52

rear 10 J x 18 H2, RO 65



18-inch SportClassic II wheel

Front: 8 J x 18 H2, RO 52
rear 10 J x 18 H2, RO 65



18-inch SportDesign wheel

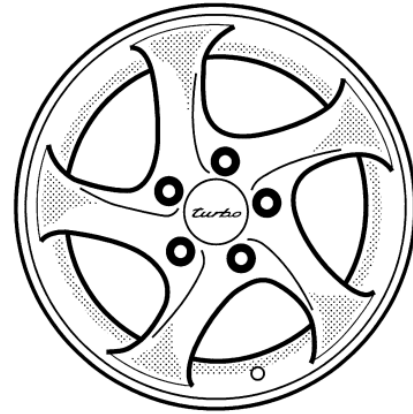
Front: 8 J x 18 H2, RO 52
rear 10 J x 18 H2, RO 65



18-inch Carrera II wheel

Front: 8 J x 18 H2, RO 52

rear 10 J x 18 H2, RO 65



18-inch Turbo Look II wheel

Front: 8 J x 18 H2, RO 50

rear 10 J x 18 H2, RO 65

Front: 8 J x 18 H2, RO 52

rear 10 J x 18 H2, RO 40

Front: 8 J x 18 H2, RO 50

rear 10 J x 18 H2, RO 47

- 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.

Information: USA/Canada vehicles that **cannot be retrofitted with 18-inch wheels:**

99 XSS 32 2697	99 XSS 32 2750	99 6SS 32 2860	99 1SS 32 3298
99 1SS 32 2698	99 9SS 32 2755	99 9SS 32 2867	99 3SS 32 3304
99 8SS 32 2701	99 0SS 32 2756	99 9SS 32 2870	99 7SS 32 3614
99 7SS 32 2706	99 6SS 32 2759	99 1SS 32 2877	
99 9SS 32 2707	99 5SS 32 2767	99 2SS 32 2886	
99 2SS 32 2712	99 9SS 32 2769	99 XSS 32 2893	
99 1SS 32 2720	99 5SS 32 2770	99 6SS 32 2924	
99 5SS 32 2736	99 9SS 32 2772	99 3SS 32 2931	
99 9SS 32 2738	99 4SS 32 2775	99 5SS 32 2932	
99 0SS 32 2739	99 8SS 32 2777	99 6SS 32 2986	
99 9SS 32 2741	99 XSS 32 2778	99 8SS 32 2987	
99 0SS 32 2742	99 5SS 32 2784	99 0SS 32 3003	
99 2SS 32 2743	99 7SS 32 2785	99 6SS 32 3006	
99 4SS 32 2744	99 4SS 32 2789	99 5SS 32 3028	
99 6SS 32 2745	99 0SS 32 2790	99 9SS 32 3078	
99 XSS 32 2747	99 2SS 32 2791	99 4SS 32 3084	
99 1SS 32 2748	99 1SS 32 2796	99 5SS 32 3210	
99 3SS 32 2749	99 9SS 32 2822	99 6SS 32 3233	

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