

Manufacturer's Certificate

911 (996)

64/20 ENU 4440

4

Approved Tires, Wheels and Spacers (64/20)

Revision: This bulletin replaces bulletin Group 4 06/11, dated May 26, 2011.

Model Year: As of 1998 up to 2005

Vehicle Types: 911 Carrera / Carrera 4 / Targa (996)

Information: Approved tires



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

Makes/Types:

Summer tire approvals		
Tire size	Tire make and type / Label value (Link to EU database)	Comments
205/50 ZR17 (FA) 255/40 ZR17 (RA)	Pirelli P Zero Rosso Asimmetrico N5 FA: https://eprel.ec.europa.eu/qr/596142 RA: https://eprel.ec.europa.eu/qr/596140	996 C2, 996 C4, 996 Targa up to MY 01
	Bridgestone Potenza S-02A N4 FA/RA: Label values currently not available	
	Continental ContiSportContact2 N2 FA/RA: Label values currently not available	
	Michelin Pilot Sport 2 N3 FA: https://eprel.ec.europa.eu/qr/409007 RA: https://eprel.ec.europa.eu/qr/412056	
	Pirelli P Zero Trofeo R N0 (Ultra High Performance tires) FA: https://eprel.ec.europa.eu/qr/621935 RA: https://eprel.ec.europa.eu/qr/621934	

225/40 ZR18 (FA) 265/35 ZR18 (RA)	Pirelli P Zero Rosso Asimmetrico N4 FA: Label values currently not available RA: https://eprel.ec.europa.eu/qr/595111	996 C2, 996 C4, 996 Targa up to MY 01
	Bridgestone Potenza S-02A N3 FA/RA: Label values currently not available	
	Continental ContiSportContact2 N2 FA/RA: Label values currently not available	
	Michelin Pilot Sport 2 N3 FA: https://eprel.ec.europa.eu/qr/411351 RA: https://eprel.ec.europa.eu/qr/412881	
	Pirelli P Zero Trofeo R N0 (Ultra High Performance tires) FA: https://eprel.ec.europa.eu/qr/621936 RA: https://eprel.ec.europa.eu/qr/621937	
225/40 ZR18 (FA) 285/30 ZR18 (RA)	Pirelli P Zero Rosso Asimmetrico N4 FA: Label values currently not available RA: https://eprel.ec.europa.eu/qr/595112	996 C2, 996 C4, 996 Targa from MY 02
	Bridgestone Potenza S-02A N3 FA/RA: Label values currently not available	
	Continental ContiSportContact N2 FA/RA: Label values currently not available	
	Michelin Pilot Sport 2 N3 FA: https://eprel.ec.europa.eu/qr/411351 RA: https://eprel.ec.europa.eu/qr/408435	



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 = mounting on specified side only
- Arrow with both inscriptions "Rotation" and "Inside/Outside" = directional mounting on specified side only



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.**

Tire Pressure:

	17-inch wheels	18-inch wheels	Spare wheel/collapsible wheel
Front axle	2.5 bar (36 psi)	2.5 bar (36 psi)	4.2/2.5 bar (61/36 psi)
Rear axle	2.5 bar (36 psi)	3.0 bar (44 psi)	4.2/2.5 bar (61/36 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.

Wheel
Mounting:

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

Sizes:

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

Tires	Wheels	Comments
205/50 ZR17 (FA) 255/40 ZR17 (RA)	7Jx17 RO 55 (FA) 9Jx17 RO 55 (RA)	
205/50 ZR17 (FA) 255/40 ZR17 (RA)	7Jx17 RO 55 (FA) 9Jx17 RO 55 (RA)	5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.00 , ² , ³ :
205/50 ZR17 (FA) 255/40 ZR17 (RA)	7Jx17 RO 55 (FA) 9Jx17 RO 55 (RA)	17-mm thick spacer per wheel on the rear axle is permitted, Part No. 996.361.617.00 , , ¹ , ³ ; Snow chains cannot be installed 17 mm thick spacers on each wheel on the rear axle; Part No. 996.361.617.00 , ¹ , ³ ; Snow chains cannot be installed
225/40 ZR18 (FA) 265/35 ZR18 (RA)	7.5Jx18 RO 50 (FA) 10Jx18 RO 65 (RA)	Only for vehicles up to and including model year 2001 Snow chains cannot be installed
225/40 ZR18 (FA) 265/35 ZR18 (RA)	7.5Jx18 RO 50 (FA) 10Jx18 RO 65 (RA)	Only for vehicles up to and including model year 2001 5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.00 , ² , ³ ; Snow chains cannot be installed

225/40 ZR18 (FA) 265/35 ZR18 (RA)	7.5Jx18 RO 50 (FA) 10Jx18 RO 65 (RA)	Only for vehicles up to and including model year 2001 17-mm wheel spacer permitted on each wheel on the rear axle, Part No. 996.361.617.00 , 1 , 2 , 4 ; Snow chains cannot be installed
225/40 ZR18 (FA) 285/30 ZR18 (RA) ^{2 4}	8Jx18 RO 50/52 (FA) ² 10Jx18 RO 65 (RA)	Snow chains cannot be installed
225/40 ZR18 (FA) 285/30 ZR18 (RA) ^{2 4}	8Jx18 RO 50/52 (FA) ² 10Jx18 RO 65 (RA)	5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.00 , 2 , 4 ; Snow chains cannot be installed
225/40 ZR18 (FA) 285/30 ZR18 (RA) ^{2 4 5}	8Jx18 RO 50/52 (FA) 11Jx18 RO 63 (RA)	Snow chains cannot be installed
225/40 ZR18 (FA) 295/30 ZR18 (RA) ^{2 4 5}	8Jx18 RO 50/52 (FA) 11Jx18 RO 63 (RA)	Snow chains cannot be installed

- 1 The spacer must be removed when installing the spare wheel
- 2 For vehicles up to and including model year 2001: **Only** for European Union (EU) countries.
- 3 Only in conjunction with the longer wheel bolts used on the 911 GT3, Part No. 996.361.203.90. The spacer must remain on the vehicle when mounting the spare wheel.
- 4 The wing seam and if necessary the rear apron on vehicles up to and including model year 2001 require subsequent work.
- 5 For vehicles up to and including model year 2001

Further detailed information about permitted wheel and tire sizes as well as spacers that may be required can be found in the relevant parts certificates/manufacturer's certificates held by the Porsche partners.

Makes/Types:

Winter tire approval		
Tire size	Tire make and type / Label value (Link to EU database)	Snow chain clearance (only without spacers)
205/50 R17 93V XL M+S (FA) 255/40 R17 98V XL M+S (RA)	Pirelli Winter Sottozero 3 N2 FA: https://eprel.ec.europa.eu/qr/595707 RA: https://eprel.ec.europa.eu/qr/595709	Yes
225/40 R18 92V XL M+S (FA) 265/35 R18 97V XL M+S (RA)	Pirelli Winter Sottozero 3 N4 FA: https://eprel.ec.europa.eu/qr/595710 RA: https://eprel.ec.europa.eu/qr/621928	No

**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.

Speed index: V = 240 km/h

Arrow with inscription
"Rotation" = directional mounting

"Inside/Outside" inscription = mounting on specified side only

Arrow with both
inscriptions "Rotation" and
"Inside/Outside" = directional mounting on specified side only

**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.**

Tire Pressure:

	17-inch wheels	18-inch wheels
Front axle	2.5 bar (36 psi)	2.5 bar (36 psi)
Rear axle 255/40 R 17)	2.5 bar (36 psi)	3.0 bar (44 psi)
Rear axle 225/45 R 17	2.8 bar (41 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.

Wheel Mounting:

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

Sizes:

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

Tires	Wheels	Comments
205/50 R17 93V XL M+S (FA) 255/40 R17 98V XL M+S (RA)	7Jx17 RO 55/50 (FA) 9Jx17 RO 55 (RA)	Part number of the snow chain 996.361.921.00
	7Jx17 RO 55/50 (FA) 9Jx17 RO 55 (RA)	Spacer ring of 5 mm on front and rear axle permitted, Part No. 996.361.605.90 ⁶⁷ Snow chains cannot be installed
	7Jx17 RO 55/50 (FA) 9Jx17 RO 55 (RA)	Spacer ring of 17 mm on front and rear axle permitted, Part No. 996.361.617.00 ⁶⁸⁹ Snow chains cannot be installed

225/40 R18 92V XL M+S (FA) 265/35 R18 97V XL M+S (RA)	7.5Jx18 RO 50 (FA) 10Jx18 RO 65 (RA)	Snow chains cannot be installed
	7.5Jx18 RO 50 (FA) 10Jx18 RO 65 (RA)	Spacer ring of 5 mm on front and rear axle permitted, Part No. 996.361.605.90 ^{6 7} Snow chains cannot be installed
	7.5Jx18 RO 50 (FA) 10Jx18 RO 65 (RA)	Spacer ring of 17 mm on front and rear axle permitted, Part No. 996.361.617.00 ^{6 8 9} Snow chains cannot be installed
225/40 R18 92V XL M+S (FA) 265/35 R18 97V XL M+S (RA)	8Jx18 RO 50/52 (FA) 10Jx18 RO 65 (RA)	Snow chains cannot be installed
	8Jx18 RO 50/52 (FA) 10Jx18 RO 65 (RA)	Spacer ring of 5 mm on front and rear axle permitted, Part No. 996.361.605.90 ^{6 7} Snow chains cannot be installed
	8Jx18 RO 50/52 (FA) 10Jx18 RO 65 (RA)	Spacer ring of 17 mm on front and rear axle permitted, Part No. 996.361.617.00 ^{6 8 9} Snow chains cannot be installed

- ⁶ The spacer must be removed when installing the spare wheel
- ⁷ For vehicles up to and including model year 2001: **Only** for European Union (EU) countries.
- ⁸ Only in conjunction with the longer wheel bolts used on the 911 GT3, Part No. 996.361.203.90. The spacer must remain on the vehicle when mounting the spare wheel.
- ⁹ The wing seam and if necessary the rear apron on vehicles up to and including model year 2001 require subsequent work.

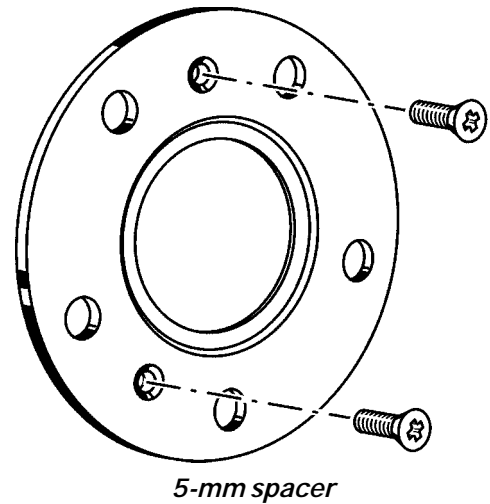
Subsequent installation of spacers

Securing spacers and wheels

The 5-mm thick spacers are secured on the wheel hubs together with the brake discs using countersunk screws (M6x16), Part No. 900.269.106.09.

Tightening torque 10 Nm (7.5 ftlb.)

The 5-mm spacer must remain on the vehicle when mounting the spare wheel.

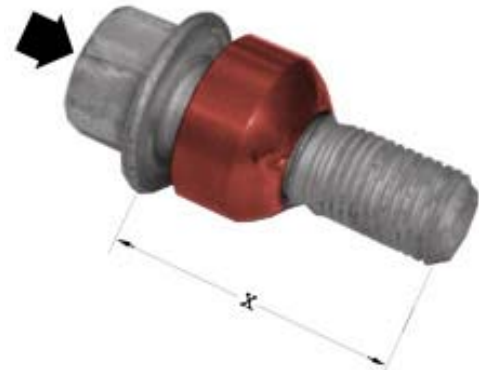


If 5-mm spacers are used, the wheels must be secured using the 5-mm longer wheel bolts used on the 911 GT3, Part No. 996.361.980.00. These wheel bolts are marked with GT or with a red color on the front of the bolt head (arrow) or the rotating spherical cap is galvanized in red.

Length "X" approx. 50 mm

Tightening torque 130 Nm (96 ftlb.)

If the spacer is removed, the original wheel bolts, **Length "X" approx. 45 mm**, must be used again.



Wheel bolt

The 17-mm spacer rings are mounted on the wheel hubs using the standard wheel bolts, Part No. 996.361.203.00 (dimension X = approx. 45 mm). Tightening torque: **130 Nm (96 ftlb.)**.

The wheels are mounted on the 17-mm spacer rings using wheel nuts. Part No. 999.182.003.36. Tightening torque: **130 Nm (96 ftlb.)**.

The 17-mm spacer ring must be removed when mounting the spare wheel.

Wheel mounting:

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

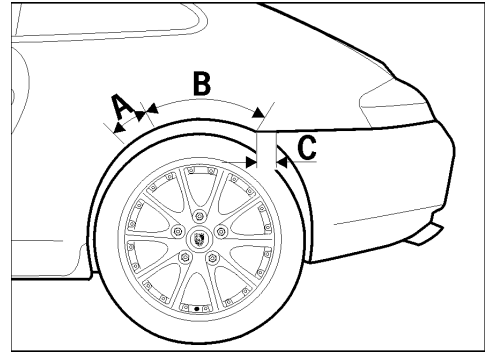
Reworking wing seam (only required for vehicles up to model year 2001):

The wing seam and rear spoiler, if necessary, must be reworked in the area shown:

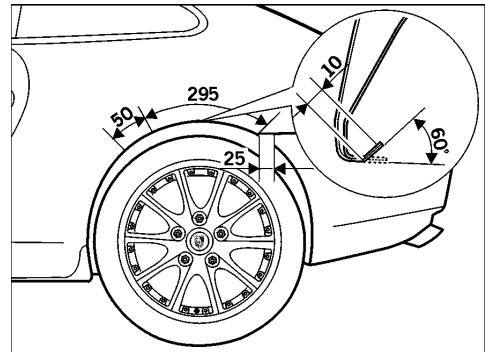
A = transition approx. 50 mm

B = flange approx. 295 mm

C = transition approx. 25 mm

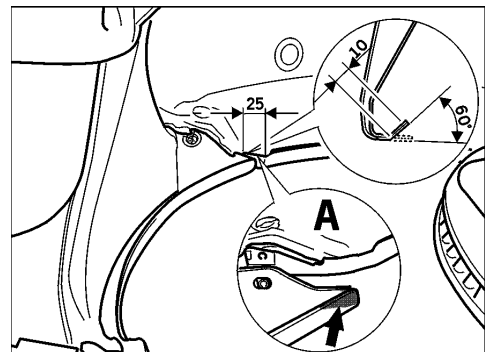


The wing seam must be flanged over a width of at least 10 mm and at least 60°; never flange, grind or cut off more than 65°.



Adapting the rear apron:

If the rear apron projects beyond the flanged rear side section (cut-out A), cut or grind off the projecting part of the rear apron (arrow).



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

FA: 7 J x 17 H2, RO 55

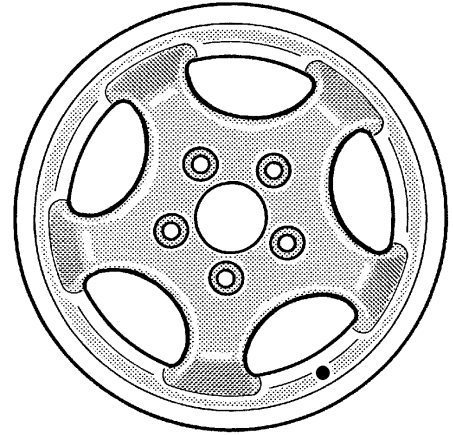
RA: 9 J x 17 H2, RO 55



17-inch Carrera wheel

FA: 7 J x 17 AH, RO 55

RA: 9 J x 17 AH, RO 55



17-inch Cup Design wheel

FA: 7 J x 17 AH, RO 55

RA: 8.5J x 17 AH, RO 50

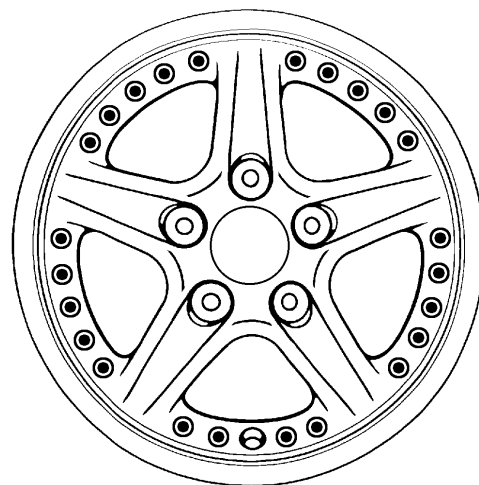
Only for winter



17-inch Dyno wheel

FA: 7 J x 17 H2, RO 55

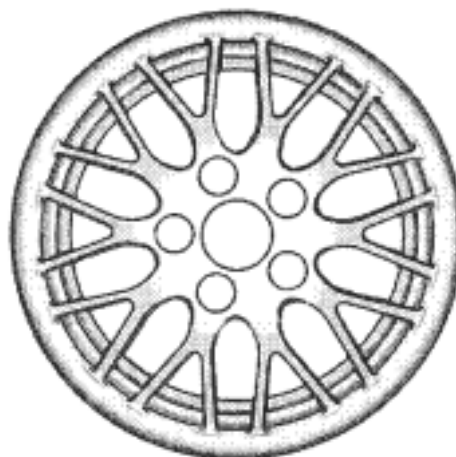
RA: 9 J x 17 H2, RO 55



17-inch Targa wheel

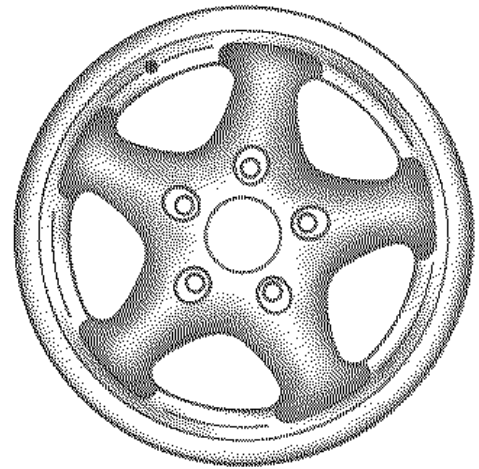
FA: 7 J x 17 H2, RO 55

RA: 9 J x 17 H2, RO 55



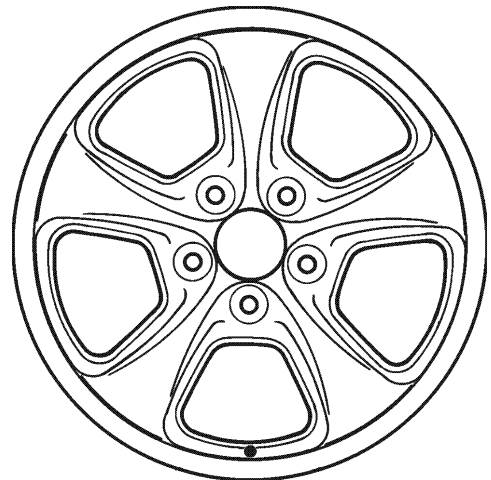
17-inch SportClassic wheel

FA: 7 J x 17 H2, R0 55
RA: 9 J x 17 H2, R0 55
Only for summer



17-inch 993 Cup Design wheel

FA: 7 J x 17 H2, R0 55
RA: 9 J x 17 H2, R0 55

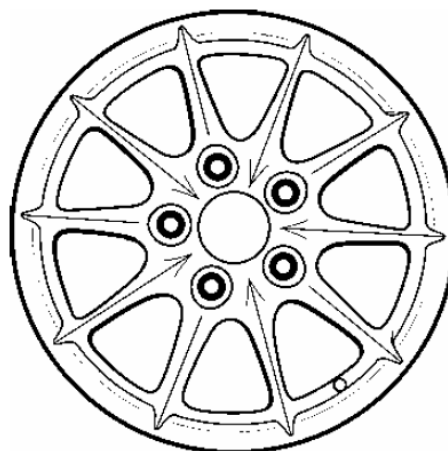


17-inch Carrera 4 wheel

FA: 7 J x 17 H2, RO 55

RA: 9 J x 17 H2, RO 55

Only for winter

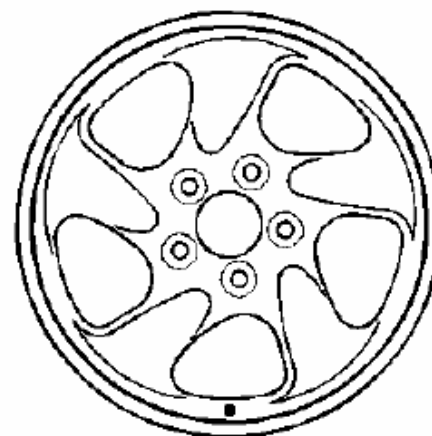


17-inch Carrera II wheel

FA: 7 J x 17 H2, RO 55

RA: 8.5J x 17 H2, RO 50

Only for winter

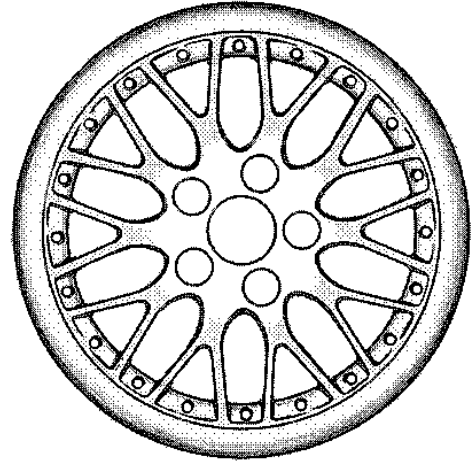


17-inch Boxster S wheel

FA: 7.5 J x 18 H2, RO 50

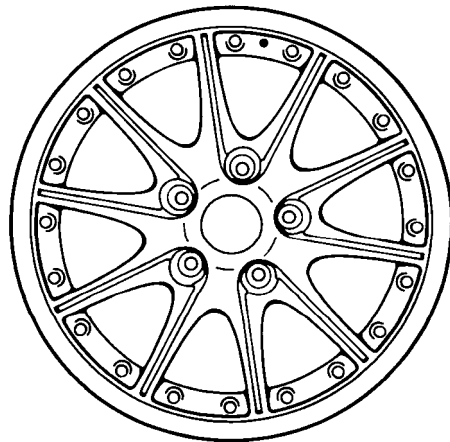
RA: 10J x 18 H2, RO 65

FA: 7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2, RO 52
RA: 10 J x 18 H2, RO 65



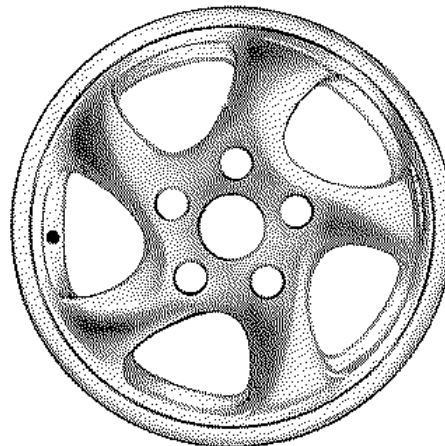
18-inch SportClassic II wheel

FA: 7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2, RO 52
10 J x 18 H2, RO 65



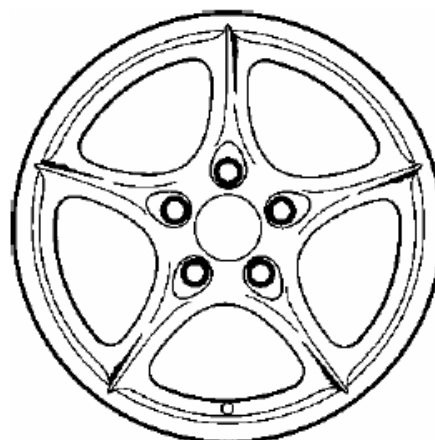
18-inch SportDesign wheel

FA: 7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2, RO 52
RA: 10 J x 18 H2, RO 65



18-inch Turbo I wheel

FA: 7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2, RO 50
RA: 10 J x 18 H2, RO 65
Only for winter



18-inch Carrera II wheel

7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2, RO 50
10 J x 18 H2, RO 65
Only for summer



18-inch Carrera wheel

FA: 8 J x 18 H2, RO 50
RA: 10 J x 18 H2, RO 65
Only for summer

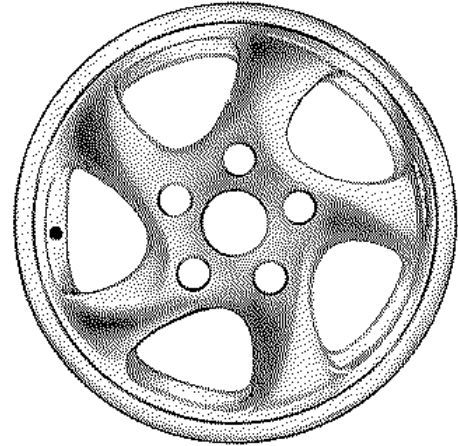


18-inch Carrera wheel

FA: 7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2, RO 52

RA: 10 J x 18 H2, RO 65

Only for summer

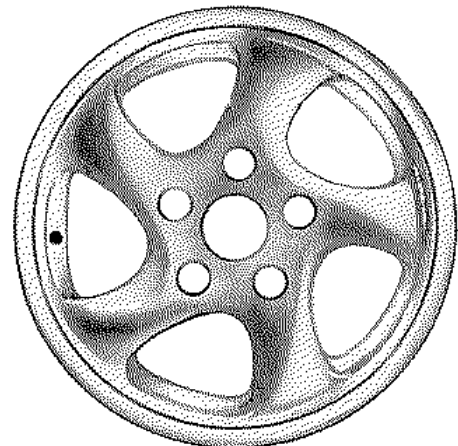


18-inch Turbo Look I wheel

FA: 7.5 J x 18 H2, RO 50
or FA: 8 J x 18 H2 RO 52

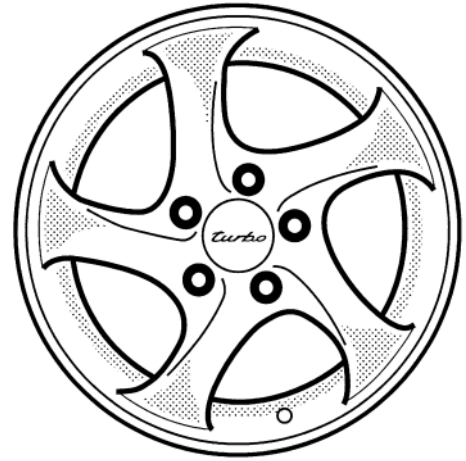
RA: 10 J x 18 H2 RO 65

Only for summer



18-inch Turbo Look I high-gloss wheel

FA: (winter only) 7.5J x 18 H2, RO 50
FA: 8 J x 18 H2, RO 50
RA: 10 J x 18 H2, RO 65



18-inch Turbo Look II wheel

FA: 8J x 18 H2, RO 50/52
RA: 11 J x 18 H2, RO 63

Navigation systems: After a wheel change, the full locating accuracy is attained only after a trip of approx. 50 km (30 miles), if possible on a motorway and at a speed > 60 km/h (40 mph). Additionally, a high wheel slip factor (e.g. wheel spin) can result in temporary incorrect positioning.

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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