

Manufacturer's Certificate

Boxster (986)

63/20 ENU 4440

4

Approved Tires, Wheels and Spacers (63/20)

Revision: This bulletin replaces bulletin Group 4 03/11, dated May 26, 2011.

Model Year: As of 1997 up to 2004

Vehicle Types/Model Years: **Boxster (986) / Boxster S (986)**

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

Makes/Types:

Summer tire approvals		
Tire size	Tire make and type / Label value (Link to EU database)	Comments
205/55 ZR16 (FA) 225/50 ZR16 (RA)	Pirelli P-Zero Rosso Asimmetrico N5 FA: <a href="https://eprel.ec.europa.eu/qr/596145">https://eprel.ec.europa.eu/qr/596145</a> RA: <a href="https://eprel.ec.europa.eu/qr/596144">https://eprel.ec.europa.eu/qr/596144</a>	986, all
	Pirelli P-Zero Trofeo R N0 (UHP tires) FA: <a href="https://eprel.ec.europa.eu/qr/621929">https://eprel.ec.europa.eu/qr/621929</a> RA: <a href="https://eprel.ec.europa.eu/qr/621931">https://eprel.ec.europa.eu/qr/621931</a>	
	Continental ContiSportContact N2 FA/RA: Label values currently not available	

205/55 ZR16 (FA) 225/50 ZR16 (RA)	Pirelli P-Zero Direzionale N3 (FA) FA/RA: Label values currently not available	Not for Boxster S
	Pirelli P-Zero Asimmetrico N3 (RA) FA/RA: Label values currently not available	
	Bridgestone Potenza S-02 N3 (FA, RA) FA/RA: Label values currently not available	
	Continental ContiSportContact N1 FA/RA: Label values currently not available	
	Michelin Pilot Exalto PE2 NO FA: <a href="https://eprel.ec.europa.eu/qr/408538">https://eprel.ec.europa.eu/qr/408538</a> RA: <a href="https://eprel.ec.europa.eu/qr/412732">https://eprel.ec.europa.eu/qr/412732</a>	
205/50 ZR17 (FA) 255/40 ZR17 (RA)	Pirelli P-Zero Rosso Asimmetrico N5 FA: <a href="https://eprel.ec.europa.eu/qr/596142">https://eprel.ec.europa.eu/qr/596142</a> RA: <a href="https://eprel.ec.europa.eu/qr/596140">https://eprel.ec.europa.eu/qr/596140</a>	986 all 986 S all
	Bridgestone Potenza S-02A N4 FA/RA: Label values currently not available	
	Bridgestone Potenza S-02 N3 FA/RA: Label values currently not available	
	Continental ContiSportContact2 N2 FA/RA: Label values currently not available	
	Michelin Pilot Sport 2 N3 FA: <a href="https://eprel.ec.europa.eu/qr/409007">https://eprel.ec.europa.eu/qr/409007</a> RA: <a href="https://eprel.ec.europa.eu/qr/412056">https://eprel.ec.europa.eu/qr/412056</a>	
	Pirelli P-Zero Trofeo R NO (UHP tires) FA: <a href="https://eprel.ec.europa.eu/qr/621935">https://eprel.ec.europa.eu/qr/621935</a> RA: <a href="https://eprel.ec.europa.eu/qr/621934">https://eprel.ec.europa.eu/qr/621934</a>	

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225/40 ZR18 (FA) 265/35 ZR18 (RA)	Pirelli P-Zero Rosso Asimmetrico N4 FA: Label values currently not available RA: <a href="https://eprel.ec.europa.eu/qr/595111">https://eprel.ec.europa.eu/qr/595111</a>	986 as of mod. 98 986 S, all
	Bridgestone Potenza S-02A N3 FA/RA: Label values currently not available	
	Continental ContiSportContact2 N2 FA/RA: Label values currently not available	
	Pirelli P-Zero Trofeo R N0 (UHP tires) FA: <a href="https://eprel.ec.europa.eu/qr/621936">https://eprel.ec.europa.eu/qr/621936</a> RA: <a href="https://eprel.ec.europa.eu/qr/621937">https://eprel.ec.europa.eu/qr/621937</a>	

Makes/Types:

Winter tire approval		
Tire size	Tire make and type / Label value (Link to EU database)	Comments
205/55 R16 94V XL M+S (FA, RA)	Pirelli W240 Sottozero Standard II N2 FA/RA: <a href="https://eprel.ec.europa.eu/qr/596139">https://eprel.ec.europa.eu/qr/596139</a>	986 Boxster
205/55 R16 94V XL M+S (FA) 225/50 R16 96V XL M+S (RA)	Pirelli W240 Sottozero Standard II N2 FA: <a href="https://eprel.ec.europa.eu/qr/596139">https://eprel.ec.europa.eu/qr/596139</a> RA: <a href="https://eprel.ec.europa.eu/qr/596138">https://eprel.ec.europa.eu/qr/596138</a>	986 Boxster
	Conti WinterContact TS 790 V N0 FA/RA: Label values currently not available	986 Boxster All use areas, particularly snowy areas
	Pirelli Winter 240 SnowSport N0 FA/RA: Label values currently not available	986 Boxster Frequent highway trips

205/50 R17 93V XL M+S (FA) 225/45 R17 94V XL M+S (RA)	Pirelli Winter Sottozero 3 N2 FA: <a href="https://eprel.ec.europa.eu/qr/595707">https://eprel.ec.europa.eu/qr/595707</a> RA: <a href="https://eprel.ec.europa.eu/qr/595708">https://eprel.ec.europa.eu/qr/595708</a>	986, all
	Conti WinterContact TS 790 V N0 FA/RA: Label values currently not available	986, all All use areas, particularly snowy areas
205/50 R17 93V XL M+S (FA) 255/40 R17 98V XL M+S (RA)	Pirelli Winter Sottozero 3 N2 FA: <a href="https://eprel.ec.europa.eu/qr/595707">https://eprel.ec.europa.eu/qr/595707</a> RA: <a href="https://eprel.ec.europa.eu/qr/595709">https://eprel.ec.europa.eu/qr/595709</a>	986, all
	Pirelli Winter 240 SnowSport N1 FA/RA: Label values currently not available	
225/45 R17 98V XL M+S (FA) 255/40 R17 98V XL M+S (RA)	Pirelli Winter Sottozero 3 N2 FA: <a href="https://eprel.ec.europa.eu/qr/595708">https://eprel.ec.europa.eu/qr/595708</a> RA: <a href="https://eprel.ec.europa.eu/qr/595709">https://eprel.ec.europa.eu/qr/595709</a>	986, all
225/40 R18 92V XL M+S (FA) 265/35 R18 97V XL M+S (RA)	Pirelli Winter Sottozero 3 N4 FA: <a href="https://eprel.ec.europa.eu/qr/595710">https://eprel.ec.europa.eu/qr/595710</a> RA: <a href="https://eprel.ec.europa.eu/qr/621928">https://eprel.ec.europa.eu/qr/621928</a>	986, all
	Pirelli Winter 240 SnowSport N3 FA/RA: Label values currently not available	986, all Only for vehicles as of model year 1998

Speed index: V = 240 km/h



#### 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.**

Tire Pressure:

	<b>16/17/18-inch wheels</b>	<b>Emergency spare wheel</b>
<b>Front axle</b>	2.0 bar (29 psi)	4.2 bar (61 psi)
<b>Rear axle</b>	2.5 bar (36 psi)	4.2 bar (61 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)**

<b>Tires</b>	<b>Wheels</b>	<b>Comments</b>
205/55 ZR16 <sup>1</sup> (FA)	6 J x 16, RO 50	
225/50 ZR16 <sup>1</sup> (RA)	7 J x 16, RO 40	

205/55 ZR16 <sup>1</sup> (FA) 225/50 ZR16 <sup>1</sup> (RA)	6 J x 16, RO 50 7 J x 16, RO 40	5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.90 <sup>2 5</sup> ; Snow chains <b>cannot</b> be installed.
205/55 ZR16 <sup>1</sup> (FA) 225/50 ZR16 <sup>1</sup> (RA)	6 J x 16, RO 50 7 J x 16, RO 40	17-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.617.00 <sup>2 3 4</sup> ; Snow chains <b>cannot</b> be installed.
205/50 ZR17 (FA) 255/40 ZR17 (RA)	7 J x 17, RO 55 8.5 J x 17, RO 50/48	Snow chains <b>cannot</b> be installed.
205/50 ZR17 (FA) 255/40 ZR17 (RA)	7 J x 17, RO 55 8.5 J x 17, RO 50/48	5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.90 <sup>2 5</sup> ; Snow chains <b>cannot</b> be installed.
205/50 ZR17 (FA) 255/40 ZR17 (RA)	7 J x 17, RO 55 8.5 J x 17, RO 50/48	17-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.617.00 <sup>2 3 4</sup> ; Snow chains <b>cannot</b> be installed.
225/40 ZR18 <sup>2</sup> (FA) 265/35 ZR18 <sup>2</sup> (RA)	7.5 J x 18, RO 50 9 J x 18, RO 52	Snow chains <b>cannot</b> be installed.
225/40 ZR18 <sup>2</sup> (FA) 265/35 ZR18 <sup>2</sup> (RA)	7.5 J x 18, RO 50 9 J x 18, RO 52	5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.90 <sup>2 5</sup> ; Snow chains <b>cannot</b> be installed.
225/40 ZR18 <sup>2</sup> (FA) 265/35 ZR18 <sup>2</sup> (RA)	8 J x 18, RO 50 10 J x 18, RO 47 <sup>6</sup>	5-mm wheel spacer permitted on each wheel on the front and rear axle, Part No. 996.361.605.90 <sup>2 5</sup> ; Snow chains <b>cannot</b> be installed.

<sup>1</sup> Not for Boxster S.

- 2 Only for vehicles as of model year 1998 (W)
- 3 The spacer must be removed when installing the spare wheel.
- 4 Check clearance and rear-axle alignment and adjust it if necessary.
- 5 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.
- 6 Install clip (Part No. 999.651.230.02) for guiding the parking-brake cable at the trailing arms at the left and right.

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.

Sizes:

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

Tires	Wheels	Comments
205/55 R16 94V XL M+S (FA) 225/50 R16 96V XL M+S (RA)  Not for Boxster S	6 J x 16, RO 50 7 J x 16, RO 40	Part number of the snow chain 996.361.920.00
		Spacer ring of 5 mm permitted on each wheel on front and rear axle, Part No. 996.361.605.90 <sup>2 5</sup>  Snow chains <b>cannot</b> be installed
		A spacer ring of 17 mm must be used on each wheel on the rear axle. Part No 996.361.617.00 <sup>2 3 4</sup>  Snow chains <b>cannot</b> be installed
205/50 R17 93V XL M+S (FA) 225/45 R17 M+S 94V XL (RA)	7 J x 17, RO 55 8.5 J x 17, RO 50/48	Part number of the snow chain 996.361.920.01
	7 J x 17, RO 55 8.5 J x 17, RO 50/48	Spacer ring of 5 mm permitted on each wheel on front and rear axle, Part No. 996.361.605.00 <sup>2 5</sup>  Snow chains <b>cannot</b> be installed
	7 J x 17, RO 55	A spacer ring of 17 mm must be used on each wheel

	8.5 J x 17, RO 50	on the rear axle. Part No 996.361.617.90 <sup>2 3 4</sup> Snow chains <b>cannot</b> be installed
205/50 R17 93V XL M+S (FA) 255/40 R17 98V XL M+S (RA)	7 J x 17, RO 55 8.5 J x 17, RO 50/48	Snow chains <b>cannot</b> be installed
	7 J x 17, RO 55 8.5 J x 17, RO 50/48	Spacer ring of 5 mm permitted on each wheel on front and rear axle, Part No. 996.361.605.90 <sup>2 5</sup> Snow chains <b>cannot</b> be installed
	7 J x 17, RO 55 8.5 J x 17, RO 50	A spacer ring of 17 mm must be used on each wheel on the rear axle. Part No 996.361.617.00 <sup>2 3 4</sup> Snow chains <b>cannot</b> be installed
225/40 R18 92V XL M+S (FA) 265/35 R18 97V XL M+S (RA) Only for vehicles as of model year 1998	7.5 J x 18, RO 50 9 J x 18, RO 52	Snow chains <b>cannot</b> be installed
		Spacer ring of 5 mm permitted on each wheel on front and rear axle, Part No. 996.361.605.90 <sup>5</sup> Snow chains <b>cannot</b> be installed

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/manufacturers certificates held by the Porsche partners.

Wheel  
Mounting:

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



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 for summer tires

Identification on the inside/outside of the wheel disc:

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

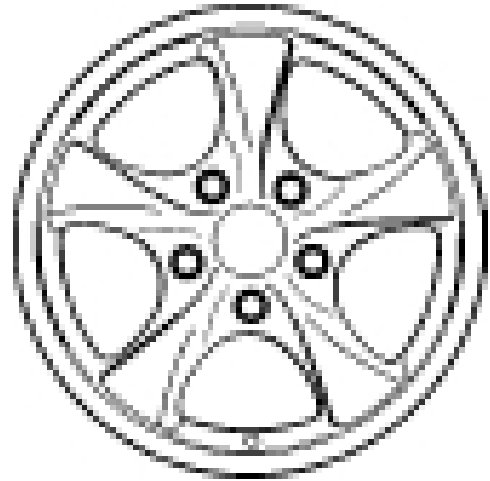
FA: 6 J x 16 H2, RO 50

RA: 7 J x 16 H2, RO 40



*16-inch Boxster wheel*

FA: 7J x 17 H2, RO 55  
RA: 8.5 J x 17 H2, RO 48



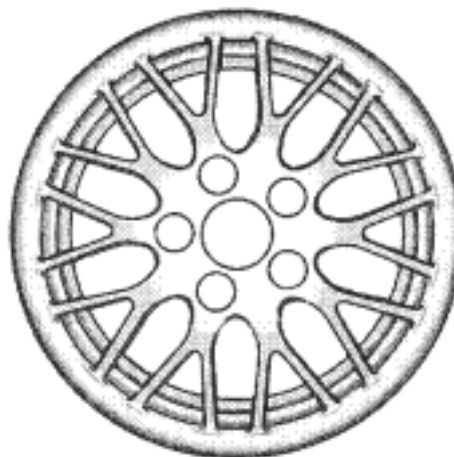
*17-inch Boxster wheel*

FA: 7 J x 17 H2, RO 55  
RA: 8.5 J x 17 H2, RO 50



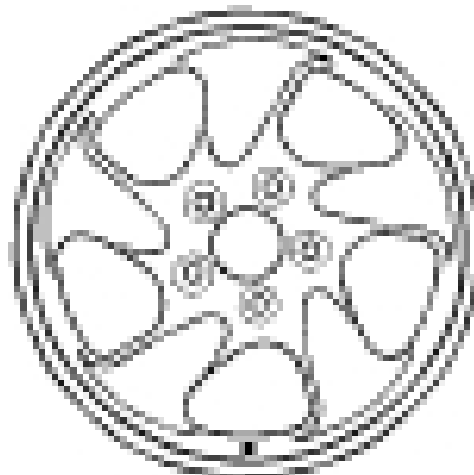
*17-inch Carrera wheel*

FA: 7 J x 17 H2, RO 55  
RA: 8.5 J x 17 H2, RO 50  
RA: 9 J x 17 H2, RO 50



*17-inch SportClassic wheel*

FA: 7 J x 17 H2, RO 55  
RA: 9 J x 17 H2, RO 50



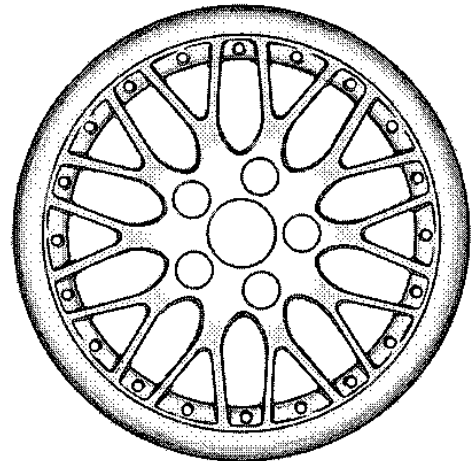
*17-inch Boxster S wheel*

FA: 7 J x 17 H2, RO 55  
RA: 9 J x 17 H2, RO 50



*17-inch Boxster S II wheel*

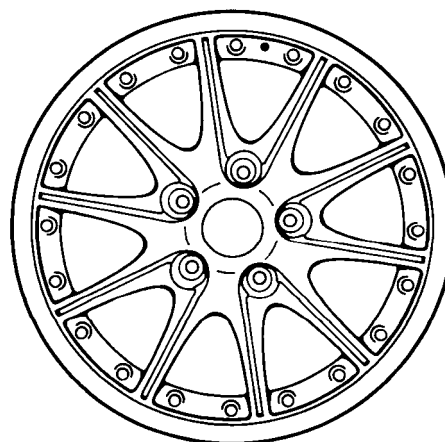
FA: 7.5 J x 18 H2, RO 50  
RA: 9 J x 18 H2, RO 52



*18-inch SportClassic II wheel*

FA: 7.5 J x 18 H2, RO 50

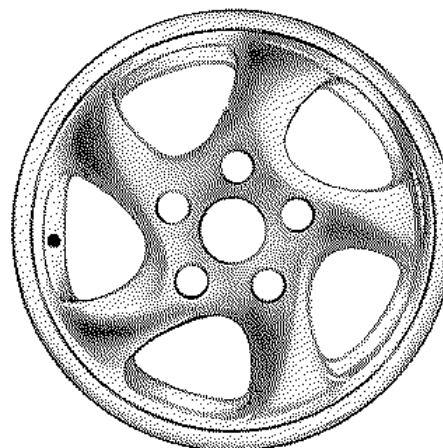
RA: 9 J x 18 H2, RO 52



*18-inch SportDesign wheel*

FA: 7.5 J x 18 H2, RO 50

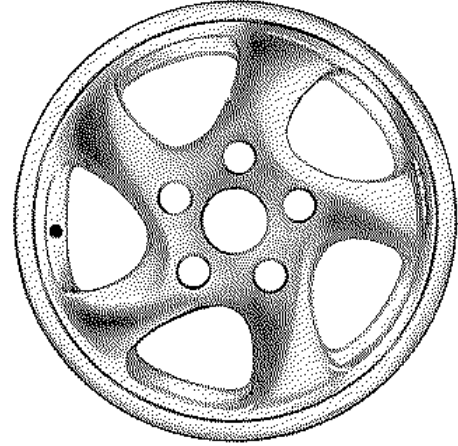
RA: 9 J x 18 H2, RO 52



*18-inch Turbo Look I wheel*

FA: 7.5 J x 18 H2, R0 50

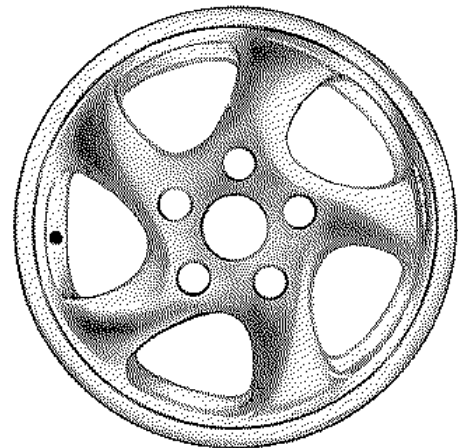
RA: 9 J x 18 H2, R0 52



*18-inch Turbo I wheel*

7.5 J x 18 H2, R0 50

9 J x 18 H2, R0 52



*18-inch Turbo Look I high-gloss wheel*

7.5 J x 18 H2, RO 50

9 J x 18 H2, RO 52



*18-inch Carrera II wheel*

8J x 18 H2, RO 50

10J x 18 H2, RO 47



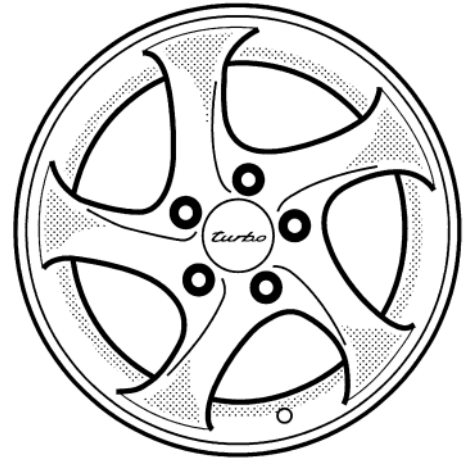
*18-inch SportTechno wheel*

7.5 J x 18 H2, RO 50

8J x 18 H2, RO 50

9 J x 18 H2, RO 52

10J x 18 H2, RO 47



*18-inch Turbo Look II wheel*

#### **Overview of Porsche wheels for winter tires**

Identification on the inside/outside of the wheel disc:

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

FA: 6 J x 16 H2, RO 50

RA: 7 J x 16 H2, RO 40

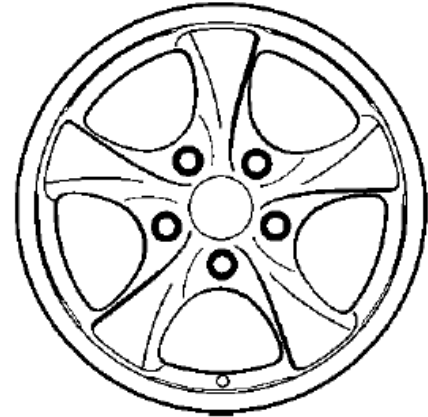


*16-inch Boxster wheel*



FA: 7J x 17 H2, RO 55

RA: 8.5 J x 17 H2, RO 48



*17-inch Boxster wheel*

FA: 7 J x 17 H2, RO 55

RA: 8.5 J x 17 H2, RO 50



*17-inch Carrera wheel*

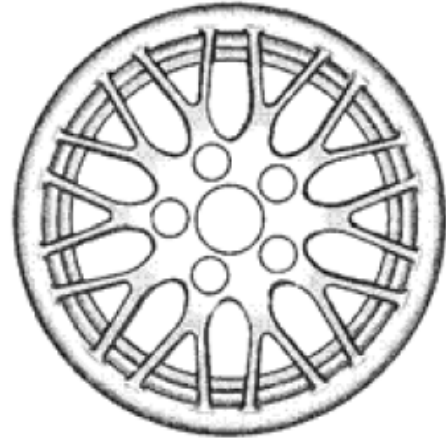
FA: 7 J x 17 H2, RO 55

RA: 8.5 J x 17 H2, RO 50



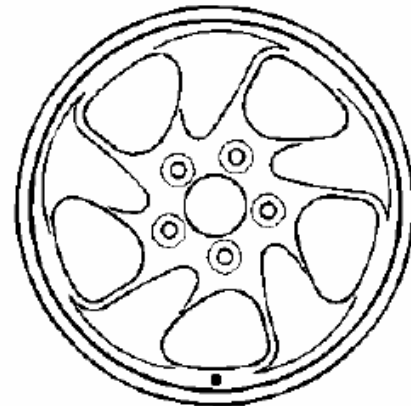
*17-inch Dyno wheel*

FA: 7 J x 17 H2, RO 55  
RA: 8.5 J x 17 H2, RO 50



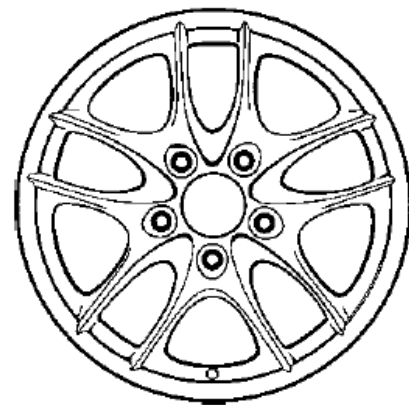
*17-inch SportClassic wheel*

FA: 7 J x 17 H2, RO 55  
RA: 8.5 J x 17 H2, RO 50



*17-inch Boxster S wheel*

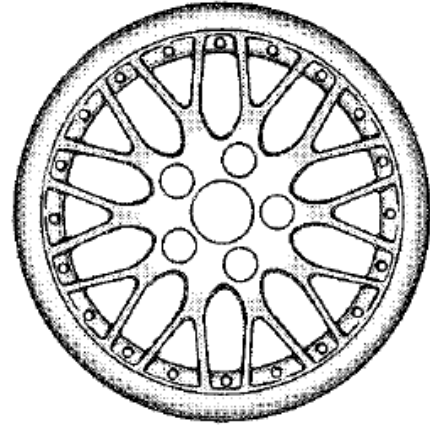
FA: 7 J x 17 H2, RO 55  
RA: 8.5 J x 17 H2, RO 48



*17-inch Boxster S II wheel*

FA: 7.5 J x 18 H2, RO 50

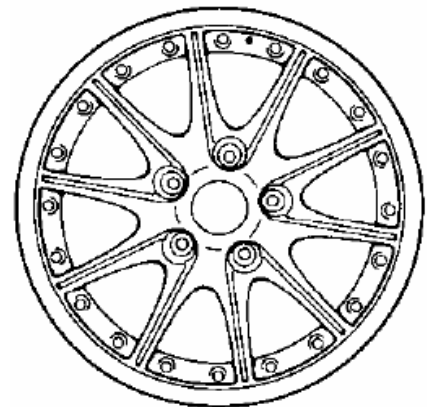
RA: 9 J x 18 H2, RO 52



*18-inch SportClassic II wheel*

FA: 7.5 J x 18 H2, RO 50

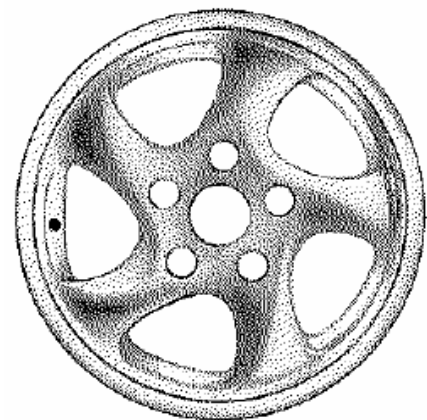
RA: 9 J x 18 H2, RO 52



*18-inch SportDesign wheel*

FA: 7.5 J x 18 H2, RO 50

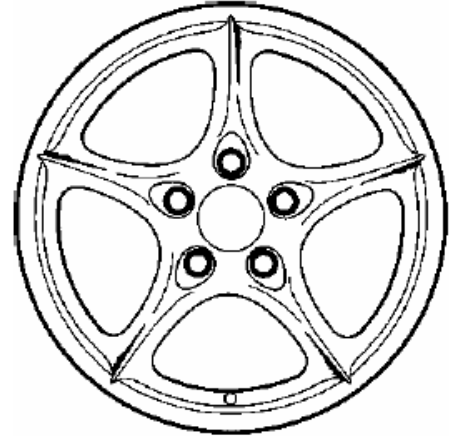
RA: 9 J x 18 H2, RO 52



*18-inch Turbo I wheel*

FA: 7.5 J x 18 H2, RO 50

RA: 9 J x 18 H2, RO 52



*18-inch Carrera II wheel*

FA: 7.5 J x 18 H2, RO 50

RA: 9 J x 18 H2, RO 52



*18-inch Turbo Look II Rad*

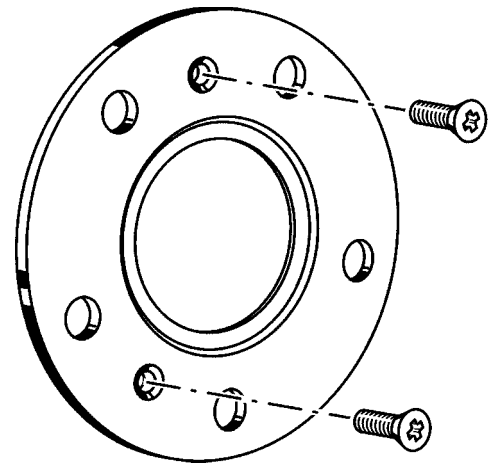
Securing spacers/wheels:

**Securing spacers and wheels**

The **5-mm wheel 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.**



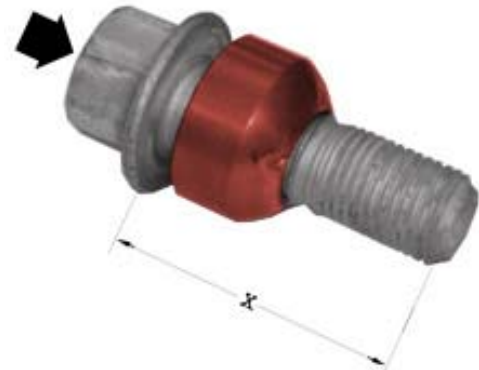
*5-mm spacer*

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. 996.361.203.90. 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.



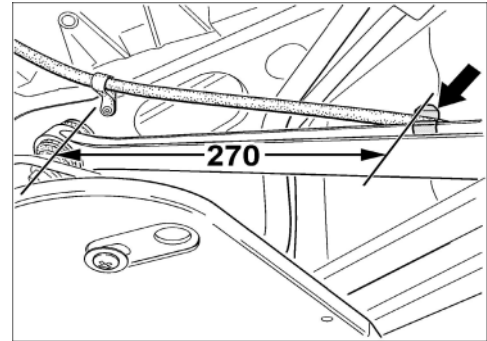
*Wheel bolt*

The **17-mm wheel spacers** are mounted on the wheel hubs using the standard wheel bolts. Part No. 996.361.203.00/01 (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.**

Installing clip for parking-brake cable:

When installing 10J x 18 wheels, a clip (Part No. 999.651.230.02) must be installed in order to secure the parking-brake cable at the longitudinal struts at the left and right. This prevents the parking-brake cable from touching the tires.



Checking clearance on the rear axle:

There must be a gap of at least 5 mm between the outside of the tire and the wing seam when compressed. If this gap is smaller, move the rear axle camber towards **positive**. The adjustment value must be between the following tolerance values:

Standard chassis:  $-1^{\circ} 20'$  and  $-0^{\circ} 50'$

Sport chassis:  $-1^{\circ} 30'$  and  $-1^{\circ}$

All other adjustment values for suspension alignment remain unchanged except for the vehicle height tolerance of the rear axle.

Rear-axle adjustment values:

With 17-mm wheel spacers	Standard chassis with 16-inch/17-inch/18-inch	Sports chassis with 16-inch/17-inch/18-inch	Tolerance
Vehicle height in mm	144/148/151	134/138/141	-10 mm
Camber	$-1^{\circ} 20'$ each	$-1^{\circ} 30'$ each	+ 30'

- 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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