

Technical Information

911 (993)

4/97 4440

4

Binder - Service Technical Bulletins

Summer Tire / Wheel Summary

Vehicle Type: **911 Carrera, 911 Carrera 4, 911 Carrera S, 911 Carrera 4S (all 993), 911 Turbo (993 Turbo)**

Model Year: **Model Years 1995-98**

Concern: **Approved Summer Tire Manufacturers and Types, as of 9/97**

Information: **911 Carrera, 911 Carrera 4**

<b>Tire Size</b>	<b>Manufacturer/Type</b>
205/55 ZR 16 and 245/45 ZR 16	Bridgestone S-02 N3 Continental Sport Contact N1 Michelin MXX3 Pilot SX N2 Toyo Proxes F1S N0
205/50 ZR 17 and 255/40 ZR 17	Bridgestone S-02 N3 Continental Sport Contact N1 Dunlop SP Sport 8000 N0 Michelin MXX3 Pilot SX N1 Toyo Proxes F1S N0 Pirelli P-ZERO Direzionale N2 Pirelli P-ZERO Asimmetrico N2
225/40 ZR 18* and 265/35 ZR 18*	Bridgestone S-02 N2* Continental Sport Contact N1* Michelin Pilot Sport N0* Pirelli P-ZERO Asimmetrico N2*

*Notes regarding Pirelli P-ZERO N2 tires:*

*Direzionale N2 = front axle only*

*Asimmetrico N2 = rear axle only*

\* Not for Targa

Information:  
(cont'd.)

**911 Carrera S only**

<b>Tire Size</b>	<b>Manufacturer/Type</b>
205/50 ZR 17	Bridgestone S-02 N3
and	Continental Sport Contact N1
255/40 ZR 17	Dunlop SP Sport 8000 N0
	Michelin MXX3 Pilot SX N1
	Toyo Proxes F1S N0
	Pirelli P-ZERO Direzionale N2
	Pirelli P-ZERO Asimmetrico N2

Notes regarding Pirelli P-ZERO N2 tires:  
*Direzionale N2 = front axle only*  
*Asimmetrico N2 = rear axle only*

**911 Turbo, 911 Carrera S and 911 Carrera 4S**

<b>Tire Size</b>	<b>Manufacturer/Type</b>
225/40 ZR 18	Bridgestone S-02 N2
and	Pirelli P-ZERO Asimmetrico N2
285/30 ZR 18	

“N0”, “N1”, “N2”, “N3” indicates a specification identification of the tires. The complete “N” number must be present and visible on the outside of the tire side wall near the type-designation. Only use tires of the same manufacturer, tire type and “N” specification on one vehicle.

Observe tire markings on side wall for correct mounting, and rotational direction.

When markings are omitted on the side wall, mount the tire in such a manner that the DOT inscription is visible from the curb side.

## Technical Information

911 (993)

4/97 4440

4

### Inflation Pressures:

	16 Inch Wheels	17 Inch Wheels	18 Inch Wheels
Front:	2.5 bar (36 PSI)	2.5 bar (36 PSI)	2.5 bar (36 PSI)
Rear:	3.0 bar (44 PSI)	2.5 bar (36 PSI)	3.0 bar (44 PSI)

The above tire pressures are valid only for tires approved by Porsche. Tire pressures must be checked and adjusted cold (approximately 20 degrees Celsius or 68 degrees Fahrenheit). Tire pressures can never be lower than what is specified above.

**Do not drive on under-inflated tires under any circumstance!**

### Tire Sizes:

#### Approved Summer Tires, Wheel Sizes, and Spacer Rings:

#### 911 Carrera (Coupe, Targa and Cabriolet), 911 Carrera 4 (Coupe and Cabriolet)

Tire	Wheel	ET(mm)*	Axle	Comments
205/55 ZR 16	7J X 16	55.0	front	5 mm spacer ring per wheel approved, P/N: 993 361 605 00**
245/45 ZR 16	9J X 16	70.0	rear	17 mm spacer ring is approved, P/N: 993 361 617 00** <b>No snow chains allowed</b>
205/50 ZR 17	7J X 17	55.0	front	5 mm spacer ring per wheel approved, P/N: 993 361 605 00**
255/40 ZR 17	9J X 17	70.0	rear	<b>No snow chains allowed</b>
205/50 ZR 17	7J X 17	55.0	front	5 mm spacer ring per wheel approved, P/N: 993 361 605 00**
255/40 ZR 17	9J X 17	55.0	rear	<b>No snow chains allowed</b>

#### 911 Carrera (Coupe and Cabriolet), 911 Carrera 4 (Coupe and Cabriolet) NOT TARGA

Tire	Wheel	ET(mm)*	Axle	Comments
225/40 ZR 18	8J X 18	52.0	front	
265/35 ZR 18	10J X 18	65.0	rear	<b>No snow chains allowed</b>

\* ET = offset

\*\* Remove spacer ring when installing emergency spare!

**4** 911(993)  
4440 4/97

Technical Information

Tire Sizes:  
(cont'd.)

**911 Carrera S only**

Tire	Wheel	ET(mm)*	Axle	Comments
205/50 ZR 17	7J X 17	55.0	front	5 mm spacer ring per wheel approved, P/N: 993 361 605 00**
255/40 ZR 17	9J X 17	55.0	rear	Only 31 mm spacer ring is approved, P/N: 993 361 631 00** <b>No snow chains allowed</b>

**911 Turbo, 911 Carrera S and 911 Carrera 4S**

Tire	Wheel	ET(mm)*	Axle	Comments
225/40 ZR 18	8J X 18	52.0	front	
285/30 ZR 18	10J X 18	40.0	rear	<b>No snow chains allowed</b>
225/40 ZR 18	8J X 18	52.0	front	
285/30 ZR 18	10J X 18	65.0	rear	Only 25 mm spacer ring is approved, P/N: 993 361 625 00** <b>No snow chains allowed</b>

\* ET = offset

\*\* Remove spacer ring when installing emergency spare!

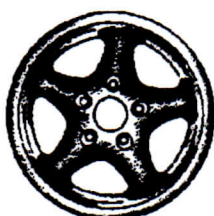
**Wheels: Overview of Porsche wheels for use with summer tires.**

The wheel description (wheel size, offset, part number and Porsche trademark) is indicated on the inside or outside of the wheel.

**911 Carrera and 911 Carrera 4**

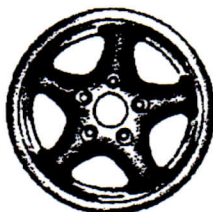
Wheel Style	Wheel Dimension	ET(mm)	Porsche Part Number
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Cup Design '93



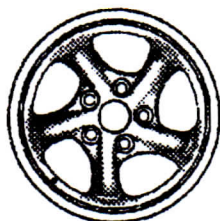
7J X 16 H2	55.0	993 362 114 00
9J X 16 H2	70.0	993 362 118 01

Cup Design '93



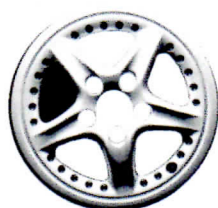
7J X 17 H2	55.0	993 362 124 00
9J X 17 H2	70.0	993 362 128 01
9J X 17 H2	55.0	993 362 128 00 61M

17" Carrera Wheel



7J X 17 H2	55.0	996 362 124 00
9J X 17 H2	55.0	996 362 128 00

17" Targa Wheel



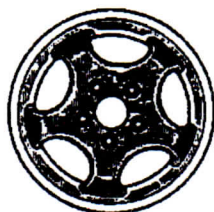
7J X 17 H2	55.0	993 362 124 50
9J X 17 H2	55.0	993 362 128 50



Wheels: (cont'd.) **Overview of Porsche wheels for use with summer tires.  
911 Carrera and 911 Carrera 4 (cont'd.)**

Wheel Style	Wheel Dimension	ET(mm)	Porsche Part Number
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Cup Design



7J X 17 H2

55.0

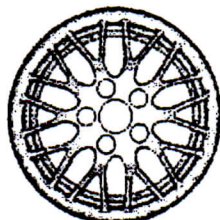
965 362 124 00/01

9J X 17 H2

55.0

965 362 128 00

17" Sport Classic Wheel



7J X 17 H2

55.0

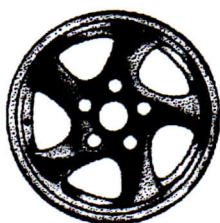
993 362 124 51

9J X 17 H2

55.0

993 362 128 51

18" Turbo Wheel



8J X 18 H2

52.0

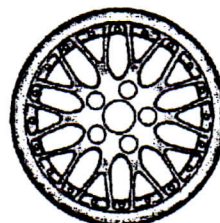
993 362 136 00

10J X 18 H2

65.0

993 362 140 01

18" Sport Classic II Wheel



8J X 18 H2

52.0

993 362 136 50

10J X 18 H2

65.0

993 362 140 50

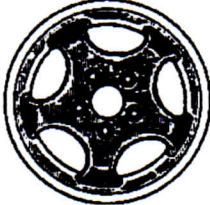
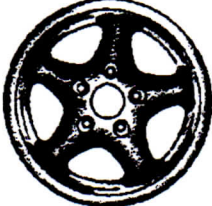
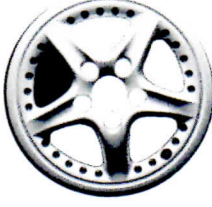
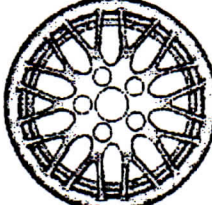
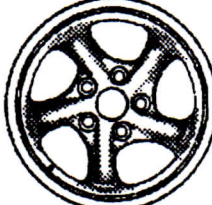
Technical Information

911 (993)

4/97 4440

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Wheels: (cont'd.) **Overview of Porsche wheels for use with summer tires.  
911 Carrera S only**

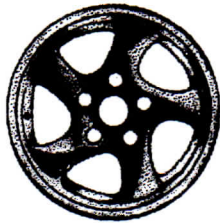
Wheel Style	Wheel Dimension	ET(mm)	Porsche Number
Cup Design			
	7J X 17 AH	55.0	965 362 124 00/01
	9J X 17 AH	55.0	965 362 128 00
Cup Design '93			
	7J X 17 H2	55.0	993 362 124 00
	9J X 17 H2	55.0	993 362 128 00 61M
17" Targa Wheel			
	7J X 17 H2	55.0	993 362 124 50
	9J X 17 H2	55.0	993 362 128 50
17" Sport Classic Wheel			
	7J X 17 H2	55.0	993 362 124 51
	9J X 17 H2	55.0	993 362 128 51
17" Carrera Wheel			
	7J x 17 H2	55.0	996 362 124 00
	9J X 17 H2	55.0	996 362 128 00

Wheels: (cont'd.) **Overview of Porsche wheels for use with summer tires.**

**911 Turbo, 911 Carrera S and 911 Carrera 4S**

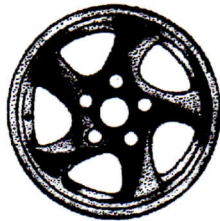
Wheel Style	Wheel Dimension	ET(mm)	Porsche Part Number
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18 " Turbo Wheel



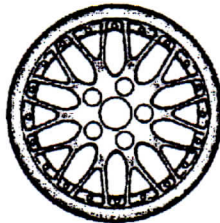
8J X 18 H2	52.0	993 362 136 00
10J X 18 H2	40.0	993 362 140 00
10J X 18 H2	65.0	993 362 140 01

18" Turbo Look Wheel



8J X 18 H2	52.0	993 362 136 01
10J X 18 H2	65.0	993 362 140 03

18" Sport Classic II Wheel



8J X 18 H2	52.0	993 362 136 50
10J X 18 H2	65.0	993 362 140 50

Wheel  
Fastening:

Secure wheel to hub with the five lug nuts (19 mm socket size).  
Tightening torque = **130Nm (96 ft/lb)**.



Notes:

The rubber valve stem should always be replaced with the mounting of each new tire.

Use approved assembly paste to facilitate mounting and to prevent damage to tire beads. Avoid extreme acceleration and braking for the first 60 to 120 miles to prevent tire movement on the wheel. Wheel balancing accuracy may be affected should this occur.

**Maximum allowable tire movement on the wheel rim is 20 mm.**

Optimal wheel balancing and minimal tire noise can be achieved by matching the tire run-out to the wheel. Please refer to the following comments on controlled and uncontrolled matching.

Uncontrolled matching:

If required, move tire on wheel by 90 or 120 degrees to find acceptable values regarding out of round conditions, imbalance, and wheel balancing weight application.

Controlled matching:

Use balancing equipment with matching program capability. Values can be optimized.

Maximum permissible axial and lateral run out of wheels  $\leq 0.7$  mm.

Maximum permissible axial and lateral run out of tire and wheel assembly  $\leq 1.25$  mm (desired value  $\leq 1.0$  mm).

When mounting tires do not exceed inflation pressure of 4.0 bar while seating tire beads.

When new tires are mounted on one axle always use a matched set from the same tire manufacturer with the same "N" designation. The handling characteristics of the vehicle may be affected by differing tread depths between front and rear axle tire sets. This effect is especially true when the rear tire set has been replaced. Use caution during break in of tires.

When handling tire complaints and tire damage is determined, the tire should be replaced. The tire should also be replaced if you are uncertain about cord damage or if the appearance of overheating makes the tire suspect in any manner.

When replacing a single tire on one axle, the difference in tread depth on the axle may not exceed 30%.

Repairs to ZR tires, or the use of tire tubes are not permitted.

Notes: (cont'd.)

The chemical and physical properties of a tire may be affected by long storage time, and the rubber compound may harden over time. Tires which are in constant use or motion will maintain a pliable compound and delay the hardening process. Therefore, the concern should not only be tread depth but the age of the tire as well. **Tires should not be older than six years from date of manufacture.** The tire age can be determined from the DOT stamp on the outside of the tire sidewall. For example, "DOT...067" = week 6, 1997.

Generally, tires should be stored in a cool, dry, and well ventilated area. Keep away from sunlight. Avoid contact with fuels, grease, oils, and other chemicals.

Mounted wheel sets may be stacked if required. It is recommended to increase tire pressure by about 0.4 bar during storage.

Tires that are not mounted should be stored in a vertical position. Turn tires every two (2) weeks to avoid flat spotting. If tires are stored in a horizontal manner, they may deform and become difficult to install.

Literature:

993 Repair Manual, Volume IV, pages 44-21 - 44-31.

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