

54/19 ENU 4400

911 (991)

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Approved Wheels and Tires (54/19)

Vehicle Type: 991 II: 911 GT2 RS/911 GT3 RS/911 GT3/911 Speedster

Model Year: As of 2018

Approval December 2019 status:



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. Exception: A mixed installation is permitted for the winter tires Michelin Pilot Alpin 4 N1/N0.



Driving with sports tires

- Aquaplaning on wet or muddy roads
- \Rightarrow Reduce speed.
- \Rightarrow Drive according to the road conditions.
- Summer tires: The 911 GT2 RS/GT3 RS vehicles are fitted as standard with sports tires that were developed specifically for motor sports.

(FA = front axle, RA = rear axle)

| Model | tire size | tire make and type |
|--------------------------|---|---|
| 911 GT2 RS/911 GT3 RS | FA: 265/35 ZR 20 (99Y) XL RA: 325/30 ZR 21 (108Y) XL | Michelin Pilot Sport Cup 2 N2 (Inside/Outside) |
| | | Not for Japan |
| | | Michelin Pilot Sport Cup 2 R NO (Inside/Outside) |
| | | Not for: Japan, South Korea, Brazil, India. |
| | | Ultra High Performance tires, such as Michelin Pilot Sport Cup 2 R, must |

| Model | tire size | tire make and type |
|--------------------------|---|--|
| | | only be inflated with the tire pressures intended for this tire type. When handing over the tire, always give the customer the customer information provided by the manufacturer. The customer information provided by the manufacturer is available on the manufacturer's website. |
| | | Dunlop Sport Maxx Race 2 N1 (Inside/Outside) |
| | | Goodyear Eagle F1 Super Sport RS NO |
| | | Not for: Japan, South Korea, Brazil, India |
| 911 GT3/911 Speedster | FA: 245/35 ZR 20 (95Y) XL RA: 305/30 ZR 20 (103Y) XL | Michelin Pilot Sport Cup 2 N1 (Inside/Outside) |
| | | Michelin Pilot Sport 4S NO (Inside/Outside) |
| | | Dunlop Sport Maxx Race 2 N1 (Inside/Outside) |

i Information

Sports tires (**Ultra High Performance Tires**) are permitted on public roads and satisfy all legal requirements and road safety criteria.

These tires are also designed for use on racing circuits (driving safety training courses, sports driving schools, Clubsport events) and offer distinct advantages with regard to dry adhesion and wear-and-tear compared to normal road tires.

The main features are a reduced tread depth as well as a special thread design and substructure.

| Model | tire sizes | tire make and type |
|--------------------------|---|---|
| 911 GT2 RS/911 GT3 RS | FA: 245/35 R 20 91V M+S | Michelin Pilot Alpin 4 N1 (Rotation) |
| | RA: 315/35 R 20 110V XL M+S | Michelin Pilot Alpin 4 NO (Rotation) |
| 911 GT3/911 Speedster | FA: 245/35 R 20 91V M+S RA: 295/30 R 20 97V/101V XL M+S | Michelin Pilot Alpin 4 N1 (Rotation) |
| | | Pirelli Winter 240 Sottozero Series II NO (Rotation) |

Winter tires:

i 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 or "Left" or "Right" | = mounting on specified side only |
| Arrow with both inscriptions "Rotation" and "Inside/Outside" | directional mounting and mounting on specified side only |
| Arrow with both inscriptions "Rotation" and "Left" or "Right" | directional mounting and 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 permissable, 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.
- \Rightarrow Check age of tires. Replace tires that are more than 6 years old.
- \Rightarrow Perform visual inspections.
- \Rightarrow Use only tires recommended by Porsche.

Tire Pressure:

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.

Standard tire pressure

| 911 GT2 RS | Standard tire pressure | | Performance tire pressure | |
|--------------------------------|------------------------|---------------------|---------------------------|---------------------|
| 911 G12 R5 | Front axle | Rear axle | Front axle | Rear axle |
| 20-inch summer tires | 2.4 bar (35 psi) | | 2.0 bar (29 psi) | |
| 20-inch summer tires Cup 2R | 2.5 bar (36 psi) | | 2.2 bar (32 psi) | |
| 21-inch summer tires | | 2.7 bar (39 psi) | | 2.3 bar (33 psi) |
| 21-inch summer tires Cup 2R | | 2.8 bar (41 psi) | | 2.5 bar (36 psi) |
| 20-inch winter tires | 2.3 bar (33 psi) | 2.5 bar (36 psi) | 2.3 bar (33 psi) | 2.5 bar (36 psi) |

| 011 012 00 | Standard tire pressure | | |
|--------------------------------|------------------------|---------------------|--|
| 911 GT3 RS | Front axle | Rear axle | |
| 20-inch summer tires | 2.0 bar (29 psi) | | |
| 20-inch summer tires Cup 2R | 2.2 bar (32 psi) | | |
| 21-inch summer tires | | 2.3 bar (33 psi) | |
| 21-inch summer tires Cup 2R | | 2.5 bar (36 psi) | |
| 20-inch winter tires | 2.3 bar (33 psi) | 2.5 bar (36 psi) | |

| 011 CT2 /011 Speedster | Standard tire pressure | | |
|------------------------|------------------------|---------------------|--|
| 911 GT3/911 Speedster | Front axle | Rear axle | |
| 20-inch summer tires | 2.0 bar (29 psi) | 2.3 bar (33 psi) | |
| 20-inch winter tires | 2.3 bar (33 psi) | 2.5 bar (36 psi) | |

Sizes:

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Permissible wheel and tire sizes

(RO = rim offset in mm, FA = front axle, RA = rear axle)

| tires | tire sizes | Wheel sizes | Snow chains |
|-----------------------|---|---|----------------|
| 911 GT2 RS | /911 GT3 RS | | |
| Summer | FA: 265/35 ZR 20 (99Y) XL RA: 325/30 ZR 21 (108Y) XL | FA: 9.5 J x 20 H2, RO 50 RA: 12.5 J x 21 H2, RO 48 | No |
| Winter | FA: 245/35 R 20 91 V M+S RA: 315/35 R 20 110 V XL M+S | FA: 9J x 20 H2, RO 55 RA: 12J x 20 H2, RO 47 | RA only |
| 911 GT3/911 Speedster | | | |
| Summer | FA: 245/35 ZR 20 (95Y) XL RA: 305/30 ZR 20 (103Y) XL | FA: 9 J x 20, RO 55 RA: 12J x 20, RO 47 | No |
| Winter | FA: 245/35 R 20 91 V M+S RA: 295/30 R 20 97 V/101 V XL M+S | FA: 9 J x 20, RO 51 RA: 11J x 20, RO 59 | RA only |



Information

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Technical Information

 Wheels:
 Overview of Porsche wheels for summer and winter tires

 Identification on the inside/outside of the wheel disc:
 Wheel size, rim offset (RO) in mm, Part No. (FFF = colour code) and Porsche logo

911 GT2 RS

20, 21-inch GT2RS aluminium wheel with central lock

20, 21-inch GT2RS magnesium wheel with

FA: 9.5 J x 20 H2, R0 50 Part No. 991.362.162.83 FFF

RA: 12.5 J x 21 H2, RO 48 Part No. 991.362.167.84 FFF



20, 21-inch GT2RS aluminium wheel



20, 21-inch GT2RS magnesium wheel

911 GT3 RS

central lock

FA: 9.5 J x 20 H2, RO 50 Part No. 991.362.163.83 FFF

RA: 12.5 J x 21 H2, RO 48 Part No. 991.362.168.84 FFF

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20, 21-inch GT3RS aluminium wheel with central lock

20, 21-inch GT3RS magnesium wheel with

FA: 9.5 J x 20 H2, R0 50 Part No. 991.362.162.84 FFF

RA: 12.5 J x 21 H2, RO 48 Part No. 991.362.167.85 FFF

central lock

FA: 9.5 J x 20 H2, R0 50 Part No. 991.362.163.83 FFF

RA: 12.5 J x 21 H2, RO 48 Part No. 991.362.168.84 FFF



20, 21-inch GT3RS aluminium wheel



20, 21-inch GT3RS magnesium wheel

911 Speedster, 911 GT3

20-inch GT3 wheel with central lock

FA: 9,0 J x 20 H2, R0 55 Part No. 991.362.162.82 FFF

RA: 12,0 J x 20 H2, RO 47 Part No. 991.362.168.83 FFF



20-inch GT3 wheel

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20-inch Carrera S4 wheel

FA: 8.5 J x 20, RO 49 Part no. 991.362.710.00 FFF

RA: 11.5 J x 20, RO 76 (C2) Part no. 991.362.760.00 FFF RA: 11.5 J x 20, RO 56 (C4) Part no. 991.362.760.01 FFF



20-inch Carrera S4 wheel

20-inch Carrera Sport wheel

FA: 8.5 J x 20, RO 49 Part no. 991.362.722.00 FFF

RA: 11.5 J x 20, RO 76 (C2) Part no. 991.362.772.00 FFF

RA: 11.5 J x 20, RO 56 (C4) Part no. 991.362.772.01 FFF

20-inch Carrera Sport wheel

i 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.

using central wheel lock:

Mounting: Tightening torque 600 Nm (444 ftlb.)

🛕 WARNING

Wheel

Incorrectly installed snow chains

- Uncontrollable vehicle handling
- \Rightarrow Do not exceed the maximum speed of Speed 30 mph/50 km/h.
- \Rightarrow Observe installation instructions from the chain manufacturer.

Snow Chains: Porsche offers the following snow chains as accessories:

| tire size | Porsche Part No. | Type of snow chain | |
|---|------------------|----------------------------|--|
| 911 GT2 RS/911 GT3 RS/911 GT3/911 Speedster | | | |
| 315/35 R 20 M+S | 991.044.601.00 | Link-type chain, quick fit | |

Wheel Storage: •

- ge: 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: A
- 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 aneven 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 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 on "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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