

Manufacturer's Certificate

911 (991)

36/21 ENU 4400

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Approved Wheels and Tires (36/21)

Revision: This bulletin replaces bulletin Group 4 54/19, dated February 25, 2020.

Model Year: As of 2018

Vehicle Type: **911 GT2 RS (991)/ 911 GT3 RS (991)/ 911 GT3 (991)/ 911 Speedster (991)**

Approval Status: May 2021



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 (NO, N1, N2, ...) on a vehicle. Exception: A mixed installation is permitted for the winter tires Michelin Pilot Alpin 4 N1/NO.



WARNING

Driving with sports tires

- Aquaplaning on wet or muddy roads
- ⇒ Reduce speed.
- ⇒ Drive according to the road conditions.

Summer Tires: The 911 GT2 RS/GT3 RS vehicles are installed 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/ label value (link to EU database)
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) FA: https://eprel.ec.europa.eu/qr/411773 RA: https://eprel.ec.europa.eu/qr/408335
		Michelin Pilot Sport Cup 2 R NO (Inside/Outside)

Model	Tire size	Tire make and type/ label value (link to EU database)
		<p>Ultra High Performance tires, such as Michelin Pilot Sport Cup 2 R, must 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.</p> <p>FA: https://eprel.ec.europa.eu/qr/411795 RA: https://eprel.ec.europa.eu/qr/409802</p>
		<p>Dunlop Sport Maxx Race 2 N1 (Inside/Outside)</p> <p>FA: https://eprel.ec.europa.eu/qr/529768 RA: https://eprel.ec.europa.eu/qr/529767</p>
		<p>Goodyear Eagle F1 Super Sport RS N0</p> <p>FA: https://eprel.ec.europa.eu/qr/530040 RA: https://eprel.ec.europa.eu/qr/530039</p>
911 GT3/911 Speedster	FA: 245/35 ZR 20 (95Y) XL RA: 305/30 ZR 20 (103Y) XL	<p>Michelin Pilot Sport Cup 2 N1 (Inside/Outside)</p> <p>FA: https://eprel.ec.europa.eu/qr/411697 RA: https://eprel.ec.europa.eu/qr/413161</p>
		<p>Michelin Pilot Sport 4S N0 (Inside/Outside)</p> <p>FA: https://eprel.ec.europa.eu/qr/411317 RA: https://eprel.ec.europa.eu/qr/408604</p>
		<p>Dunlop Sport Maxx Race 2 N1 (Inside/Outside)</p> <p>FA: https://eprel.ec.europa.eu/qr/529754 RA: https://eprel.ec.europa.eu/qr/529745</p>



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.

Winter Tires:

Model	Tire sizes	Tire make and type/ label value (link to EU database)
911 GT2 RS/911 GT3 RS	FA: 245/35 R 20 91V M+S RA: 315/35 R 20 110V XL M+S	Michelin Pilot Alpin 4 N1 (Rotation) FA: https://eprel.ec.europa.eu/qr/412844 RA: https://eprel.ec.europa.eu/qr/409024
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) FA: https://eprel.ec.europa.eu/qr/412844 RA: https://eprel.ec.europa.eu/qr/411498
		Pirelli Winter 240 Sottozero Series II NO (Rotation) FA/RA: Data currently not available



Information

"N..." = Specification code of the tire, e.g. "NO", "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 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 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	
	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)

911 GT3 RS	Standard tire pressure	
	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)

911 GT3/911 Speedster	Standard tire pressure	
	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:

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

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 = color code) and Porsche logo

911 GT2 RS**20, 21-inch GT2RS aluminium wheel with central lock**FA: 9.5 J x 20 H2, RO 50
Part No. 991.362.162.83 FFFRA: 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 with central lock**FA: 9.5 J x 20 H2, RO 50
Part No. 991.362.163.83 FFFRA: 12.5 J x 21 H2, RO 48
Part No. 991.362.168.84 FFF*20, 21-inch GT2RS magnesium wheel*

911 GT3 RS

20, 21-inch GT3RS aluminium wheel with central lock

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

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



20, 21-inch GT3RS aluminium wheel

20, 21-inch GT3RS magnesium wheel with 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



20, 21-inch GT3RS magnesium wheel

911 Speedster, 911 GT3**20-inch GT3 wheel with central lock**

FA: 9,0 J x 20 H2, RO 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

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



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.

Wheel using central wheel lock:
Mounting: **Tightening torque 600 Nm (444 ftlb.)**

**WARNING****Incorrectly installed snow chains**

- **Uncontrollable vehicle handling**
- ⇒ **Do not exceed the maximum speed of Speed 30 mph/50 km/h.**
- ⇒ **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:
- 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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ENU 36/21

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