

Approved Wheels and Tires (28/19)

Revision: This bulletin replaces bulletin Group 4, 14/19, dated July 24, 2019.

Model Year: **As of 2019**

Vehicle Type: **Macan, Macan S, Macan Turbo**

Concern: Start of new model year calendar week 25/19

General: This technical bulletin contains information about

- technically permissible wheel/tire combinations,
- measures that may be required when changing the wheel/tire combination fitted at the factory,
- approved original Porsche alloy wheels and
- approved summer, all-season and winter tires and their tire pressures.

Sizes: **Technically permissible wheel/tire combinations**
(RO = rim offset in mm, FA = front axle, RA = rear axle)

Tires	Tire size	Wheel size	Snow chains
Macan, Macan S, Macan Turbo			
Summer	FA: 235/60 R 18 103W RA: 255/55 R 18 105W – Not for vehicles with Porsche Ceramic Composite Brake (PCCB) Macan, Macan S only	FA: 8 J x 18, RO 21 RA: 9 J x 18, RO 21	No
	FA: 235/55 R 19 101Y RA: 255/50 R 19 103Y	FA: 8.5 J x 19, RO 21 RA: 9 J x 19, RO 21	No
	FA: 265/45 R 20 104Y RA: 295/40 R 20 106Y – Only in combination with wheel arch cover on RA ¹	FA: 9 J x 20, RO 26 RA: 10 J x 20, RO 19	No
	FA: 265/40 R 21 101Y RA: 295/35 R 21 103Y – Only in combination with wheel arch cover on RA ¹	FA: 9.5 J x 21, RO 27 RA: 10 J x 21, RO 19	No

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Technical Information

Tires	Tire size	Wheel size	Snow chains
All-season Winter	FA: 235/60 R 18 103V M+S RA: 255/55 R 18 105V M+S – Not for vehicles with Porsche Ceramic Composite Brake (PCCB) Macan, Macan S only	FA: 8 J x 18, RO 21 RA: 9 J x 18, RO 21	RA only
	FA: 235/55 R 19 101V M+S RA: 255/50 R 19 103V M+S	FA: 8.5 J x 19, RO 21 RA: 9 J x 19, RO 21	RA only
	FA: 265/45 R 20 104V M+S RA: 295/40 R 20 106V M+S – Only in combination with wheel arch cover on RA ¹	FA: 9 J x 20, RO 26 RA: 10 J x 20, RO 19	No

¹ Set Part No. 95B.044.800.05

Wheels:

Overview of Porsche wheels for summer, all-season and winter tires

Identification on inside of wheel:

Wheel size, rim offset (RO) in mm, part number (without color code FFF) and Porsche logo

18-inch Macan wheel

Front: 8 J x 18, RO 21
Part No. 95B.601.025.DA FFF

Rear: 9 J x 18, RO 21
Part No. 95B.601.025.DB FFF



18-inch wheel

18-inch Macan S wheel

Front: 8 J x 18, RO 21
Part No. 95B.601.025.DC FFF

Rear: 9 J x 18, RO 21
Part No. 95B.601.025.DD FFF



18-inch S wheel

19-inch Macan Sport wheel

Front: 8.5 J x 19, RO 21
Part No. 95B.601.025.DE FFF

Rear: 9 J x 19, RO 21
Part No. 95B.601.025.DQ FFF



19-inch Sport wheel

19-inch Macan Design wheel

Front: 8.5 J x 19, RO 21
Part No. 95B.601.025.DF FFF
Rear: 9 J x 19, RO 21
Part No. 95B.601.025.DR FFF



19-inch Design wheel

19-inch Macan Sport Classic (TEQ ONLY) wheel

Front: 8.5 J x 19, RO 21
Part No. 95B.601.025.EE FFF
Rear: 9 J x 19, RO 21
Part No. 95B.601.025.ED FFF



19-inch Sport Classic wheel (TEQ only)

20-inch Macan Turbo wheel

Front: 9 J x 20 H2, RO 26
Part No. 95B.601.025.DG FFF
Rear: 10 J x 20 H2, RO 19
Part No. 95B.601.025.DH FFF



20-inch Turbo wheel (high-gloss Black)

21-inch 911 Turbo Design wheel

Front: 9.5 J x 21, RO 27

Part No. 95B.601.025.DN FFF

Rear: 10 J x 21, RO 19

Part No. 95B.601.025.DP FFF



21-inch 911 Turbo Design wheel

21-inch Macan Sport Classic wheel

Front: 9,5 J x 21 H2, RO 27

Part No. 95B.601.025.EF FFF

Rear: 10 J x 21 H2, RO 19

Part No. 95B.601.025.EC FFF



21-inch Sport Classic wheel

20-inch RS Spyder Design wheel

Front: 9 J x 20 H2, RO 26
Part No. 95B.601.025.DS FFF
Rear: 10 J x 20 H2, RO 19
Part No. 95B.601.025.DT FFF



20-inch RS Spyder Design wheel

21-inch RS Spyder Design wheel

Front: 9,5 J x 21 H2, RO 27
Part No. 95B.601.025.DL FFF
Rear: 10 J x 21 H2, RO 19
Part No. 95B.601.025.DM FFF



21-inch RS Spyder Design 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
Mounting:

Tightening torque 160 Nm (118 ftlb.)



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.

Summer Tires:

Model	Tire size	Tire make and type
Macan, Macan S, Macan Turbo	235/60 R 18 103W and 255/55 R 18 105W Macan, Macan S only	Continental ContiSportContact 5 N0
		Michelin Latitude Sport 3 N0
		Hankook veNtus S1 evo2 SUV N1
		Falken Azensis FK510A N0
	235/55 R 19 101Y and 255/50 R 19 103Y	Continental ContiSportContact 5 N0
		Michelin Latitude Sport 3 N0
		Pirelli Pzero N1
		Nexen N'FERA RU1 N1
	265/45 R 20 104Y and 295/40 R 20 106Y	Michelin Latitude Sport 3 N0
		Pirelli Pzero N0
		Goodyear Eagle F1 Asym. 3 N0
	265/40 R 21 101Y and 295/35 R 21 103Y	Continental ContiSportContact 5P N0
Pirelli Pzero N0		
Michelin Latitude Sport 3 N2		

All-Season Tires:

Model	Tire size	Tire make and type
Macan, Macan S, Macan Turbo	235/60 R 18 103V M+S and 255/55 R 18 105V M+S Macan, Macan S only	Michelin Latitude Tour HP N0
		Continental ContiProContactTX N0
		Pirelli Scorpion Verde AS N0
	235/55 R 19 101V M+S and 255/50 R 19 103V M+S	Michelin Latitude Tour HP N0
		Continental ContiProContactTX N0
		Pirelli Scorpion Verde AS N0
		Goodyear Eagle LS 2 N0
	265/45 R 20 104V M+S and 295/40 R 20 106V M+S	Michelin Latitude Tour HP N0
		Pirelli Scorpion Verde AS N0

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Model	Tire size	Tire make and type
		Goodyear Eagle Touring NO

Winter Tires:

Model	Tire size	Tire make and type
Macan, Macan S, Macan Turbo	235/60 R 18 103V M+S and 255/55 R 18 105V M+S	Continental ContiWinterContact 830 P NO
	Macan, Macan S only	Pirelli Scorpion Winter NO
	235/55 R 19 101V M+S and 255/50 R 19 103V M+S	Dunlop SP Winter Sport 4D NO
		Pirelli Scorpion Winter NO
	265/45 R 20 104V M+S and 295/40 R 20 106V M+S	Dunlop Winter Sport 4D NO
		Pirelli Scorpion Winter NO
	Michelin Pilot Alpin 5 SUV 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.

- 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 on specified side only.
- Arrow with both inscriptions "Rotation" and "Left" or "Right" = 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 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.

Tire pressure for summer, winter and all-season tires

Tires	Part load		Full load	
	FA	RA	FA	RA
All summer, winter and all-season tires				
235/60 R 18 255/55 R 18	2.3 bar (33 psi)	2.5 bar (36 psi)	2.5 bar (36 psi)	2.7 bar (39 psi)
235/55 R 19 255/50 R 19	2.3 bar (33 psi)	2.5 bar (36 psi)	2.5 bar (36 psi)	2.7 bar (39 psi)
265/45 R 20 295/40 R 20	2.3 bar (33 psi)	2.5 bar (36 psi)	2.5 bar (36 psi)	2.7 bar (39 psi)
265/40 R 21 295/35 R 21	2.3 bar (33 psi)	2.5 bar (36 psi)	2.5 bar (36 psi)	2.7 bar (39 psi)

 **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 - RA	Porsche Part No.	Type of snow chain
255/55 R 18 105V M+S 255/50 R 19 103V M+S	95B.044.600.15	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 wheels can be stacked for storage; we recommend that you increase the tire pressure by approx. 0.4 bar (6 psi).

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.

- 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 by more than 30 %.

- More than 30 % up through MY16.
- More than 2mm began on some vehicles starting in MY17.

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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Technical Information

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