

Manufacturer's Certificate

Macan (95B)

46/21 ENU 4400

4

Approved Wheels and Tires (46/21)

Revision: This bulletin replaces bulletin Group 4 19/21, dated June 15, 2021.

Model Year: **As of 2019**

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

Information: Start of new model year 25/2021

General: This Manufacturer's Certificate contains information about

- technically permissible wheel/tire combinations,
- measures that may be required when changing the wheel/tire combination installed 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, Macan GTS			
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 Macan: not standard for USA	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 Not for Macan GTS	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 Macan: not standard for USA	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	FA: 9.5 J x 21, RO 27	No

Tires	Tire size	Wheel size	Snow chains
	<p>– Only in combination with wheel arch cover on RA ¹</p> <p>Macan: not standard for USA</p>	RA: 10 J x 21, RO 19	
All-season	<p>FA: 235/60 R 18 103V M+S RA: 255/55 R 18 105V M+S</p> <p>– Not for vehicles with Porsche Ceramic Composite Brake (PCCB)</p> <p>Macan, Macan S only</p>	<p>FA: 8 J x 18, RO 21 RA: 9 J x 18, RO 21</p>	RA only
	<p>FA: 235/55 R 19 101V M+S RA: 255/50 R 19 103V M+S</p> <p>Not for Macan GTS</p>	<p>FA: 8.5 J x 19, RO 21 RA: 9 J x 19, RO 21</p>	RA only
	<p>FA: 265/45 R 20 104V M+S RA: 295/40 R 20 106V M+S</p> <p>– Only in combination with wheel arch cover on RA ¹</p>	<p>FA: 9 J x 20, RO 26 RA: 10 J x 20, RO 19</p>	No
Winter	<p>FA: 235/60 R 18 103V M+S RA: 255/55 R 18 105V M+S</p> <p>– Not for vehicles with Porsche Ceramic Composite Brake (PCCB)</p> <p>Macan, Macan S only</p>	<p>FA: 8 J x 18, RO 21 RA: 9 J x 18, RO 21</p>	RA only
	<p>FA: 235/55 R 19 101V M+S RA: 255/50 R 19 103V M+S</p>	<p>FA: 8.5 J x 19, RO 21 RA: 9 J x 19, RO 21</p>	RA only
	<p>FA: 265/45 R 20 104V M+S RA: 295/40 R 20 106V M+S</p> <p>– Only in combination with wheel arch cover on RA ¹</p>	<p>FA: 9 J x 20, RO 26 RA: 10 J x 20, RO 19</p>	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 colour 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 (or:
95B.601.025.AR FFF, but not for USA)

Rear: 9 J x 18, RO 21

Part No. 95B.601.025.DD FFF (or:
95B.601.025.AS FFF, but not for USA)



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 II 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 II wheel

19-inch Macan Sport Classic II wheel (TEQ ONLY)

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 II 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)

20-inch Macan EXC wheel

Front: 9 J x 20 H2, RO 26
Part No. 95B.601.029.D FFF

Rear: 10 J x 20 H2, RO 19
Part No. 95B.601.029.E FFF



20-inch EXC wheel

21-inch 911 Turbo IV 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 IV wheel

21-inch Macan Sport Classic II 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 II 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 (N0, N1, N2, ...) on a vehicle.

Summer Tires:

Model	Tire size	Tire make and type/ label value (link to EU database)
Macan, Macan S, Macan Turbo, Macan GTS	235/60 R 18 103W and 255/55 R 18 105W Macan, Macan S only Macan: not standard for USA	Continental ContiSportContact 5 N0 FA: https://eprel.ec.europa.eu/qr/481791 RA: https://eprel.ec.europa.eu/qr/483024
		Michelin Latitude Sport 3 N0 FA: https://eprel.ec.europa.eu/qr/412034 RA: https://eprel.ec.europa.eu/qr/411364
		Hankook veNtus S1 evo2 SUV N1 FA: https://eprel.ec.europa.eu/qr/496719 RA: https://eprel.ec.europa.eu/qr/497899
		Falken Azensis FK510A N0 FA: https://eprel.ec.europa.eu/qr/613780 RA: https://eprel.ec.europa.eu/qr/614331
	235/55 R 19 101Y and 255/50 R 19 103Y Not for Macan GTS	Continental ContiSportContact 5 N0 Macan: not standard for USA FA: https://eprel.ec.europa.eu/qr/481796 RA: https://eprel.ec.europa.eu/qr/483099
		Michelin Latitude Sport 3 N0 Macan: not standard for USA FA: https://eprel.ec.europa.eu/qr/408510 RA: https://eprel.ec.europa.eu/qr/410156
		Pirelli Pzero N1 FA: https://eprel.ec.europa.eu/qr/595569 RA: https://eprel.ec.europa.eu/qr/595568
		Nexen N'FERA RU1 N1

Model	Tire size	Tire make and type/ label value (link to EU database)
		Macan: not standard for USA FA: https://eprel.ec.europa.eu/qr/430699 RA: https://eprel.ec.europa.eu/qr/430693
	265/45 R 20 104Y and 295/40 R 20 106Y Macan: not standard for USA	Michelin Latitude Sport 3 N0 FA: https://eprel.ec.europa.eu/qr/410830 RA: https://eprel.ec.europa.eu/qr/412254
		Pirelli Pzero N0 FA: https://eprel.ec.europa.eu/qr/596071 RA: https://eprel.ec.europa.eu/qr/594621
		Goodyear Eagle F1 Asym. 3 N0 FA: https://eprel.ec.europa.eu/qr/529762 RA: https://eprel.ec.europa.eu/qr/529763
	265/40 R 21 101Y and 295/35 R 21 103Y Macan: not standard for USA	Continental ContiSportContact 5P N0 FA: https://eprel.ec.europa.eu/qr/483023 H3A: https://eprel.ec.europa.eu/qr/481592
		Pirelli Pzero N0 FA: https://eprel.ec.europa.eu/qr/596070 RA: https://eprel.ec.europa.eu/qr/594620
		Michelin Latitude Sport 3 N2 FA: https://eprel.ec.europa.eu/qr/409398 RA: https://eprel.ec.europa.eu/qr/408648

All-Season
Tires:

Model	Tire size	Tire make and type/ label value (link to EU database)
Macan, Macan S, Macan Turbo, Macan GTS	235/60 R 18 103V M+S and 255/55 R 18 105V M+S – Not for vehicles with Porsche Ceramic Composite Brake (PCCB)	Michelin Latitude Tour HP N0 FA: https://eprel.ec.europa.eu/qr/412072 RA: https://eprel.ec.europa.eu/qr/409703
		Continental ContiProContactTX N0 FA/RA: No offer in the EU

Model	Tire size	Tire make and type/ label value (link to EU database)
	Macan, Macan S only	Pirelli Scorpion Verde AS NO FA: https://eprel.ec.europa.eu/qr/594617 RA: https://eprel.ec.europa.eu/qr/594616
	235/55 R 19 101V M+S and 255/50 R 19 103V M+S Not for Macan GTS	Michelin Latitude Tour HP NO FA: https://eprel.ec.europa.eu/qr/412711 RA: https://eprel.ec.europa.eu/qr/411671
		Continental ContiProContactTX NO FA/RA: No offer in the EU
		Pirelli Scorpion Verde AS NO FA: https://eprel.ec.europa.eu/qr/594615 RA: https://eprel.ec.europa.eu/qr/594614
		Goodyear Eagle LS 2 NO FA: https://eprel.ec.europa.eu/qr/531098 RA: https://eprel.ec.europa.eu/qr/531100
		Michelin Latitude Tour HP NO FA: https://eprel.ec.europa.eu/qr/409713 RA: https://eprel.ec.europa.eu/qr/408356
	265/45 R 20 104V M+S and 295/40 R 20 106V M+S	Pirelli Scorpion Verde AS NO FA: https://eprel.ec.europa.eu/qr/594613 RA: https://eprel.ec.europa.eu/qr/594612
		Goodyear Eagle Touring NO FA: https://eprel.ec.europa.eu/qr/529619 RA: https://eprel.ec.europa.eu/qr/529620

Winter Tires:

Model	Tire size	Tire make and type/ label value (link to EU database)
Macan, Macan S, Macan Turbo, Macan GTS	235/60 R 18 103V M+S and 255/55 R 18 105V M+S Macan, Macan S only	Continental WinterContact 830 P N0 FA: https://eprel.ec.europa.eu/qr/505965 RA: https://eprel.ec.europa.eu/qr/505819
		Pirelli Scorpion Winter N0 FA: https://eprel.ec.europa.eu/qr/594649 RA: https://eprel.ec.europa.eu/qr/594653
		Dunlop SP Winter Sport 4D N0 FA: https://eprel.ec.europa.eu/qr/529163 RA: https://eprel.ec.europa.eu/qr/529162
	235/55 R 19 101V M+S and 255/50 R 19 103V M+S	Pirelli Scorpion Winter N0 FA: https://eprel.ec.europa.eu/qr/594651 RA: https://eprel.ec.europa.eu/qr/594654
		Dunlop Winter Sport 4D N0 FA: https://eprel.ec.europa.eu/qr/529309 RA: https://eprel.ec.europa.eu/qr/529308
		Pirelli Scorpion Winter N0 FA: https://eprel.ec.europa.eu/qr/594611 RA: https://eprel.ec.europa.eu/qr/594610
	265/45 R 20 104V M+S and 295/40 R 20 106V M+S	Michelin Pilot Alpin 5 SUV N0 FA: https://eprel.ec.europa.eu/qr/408554 RA: https://eprel.ec.europa.eu/qr/408429

**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	2.3 bar	2.5 bar	2.5 bar	2.7 bar
255/55 R 18	(33 psi)	(36 psi)	(36 psi)	(39 psi)
235/55 R 19	2.3 bar	2.5 bar	2.5 bar	2.7 bar
255/50 R 19	(33 psi)	(36 psi)	(36 psi)	(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 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.

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2021 Porsche Cars North America, Inc.