

Approved Wheels and Tires (22/20)

Revision: This bulletin replaces bulletin Group 4, 09/20, dated March 18, 2020.

Model Year: **As of 2020**

Vehicle Type: **Taycan 4S/Turbo/Turbo S/Basic**

Information: Approval status: May 2020

Sizes: **Permissible tire and wheel sizes**
(RO = rim offset in mm, FA = front axle, RA = rear axle)

Tires	Tire sizes	Wheel sizes	Snow chains
Taycan 4S/Turbo/Turbo S/Basic			
Summer	19-inch FA: 225/55 R 19 103Y XL RA: 275/45 R 19 108Y XL Not for Turbo and Turbo S. *)	FA: 8J x 19, RO 50 RA: 10J x 19, RO 47	No
	20-inch FA: 245/45 R 20 103Y XL RA: 285/40 R 20 108Y XL	FA: 9J x 20, RO 54 RA: 11J x 20, RO 60	
	21-inch FA: 265/35 ZR 21 (101Y) XL RA: 305/30 ZR 21 (104Y) XL For Turbo vehicles: not standard for USA	FA: 9.5J x 21, RO 60 RA: 11.5J x 21, RO 66	
All-season	19-inch FA: 225/55 R 19 103H XL RA: 275/45 R 19 108H XL Not for Turbo and Turbo S. *)	FA: 8J x 19, RO 50 RA: 10J x 19, RO 47	
	20-inch FA: 245/45 R 20 103H XL RA: 285/40 R 20 108H XL	FA: 9J x 20, RO 54 RA: 11J x 20, RO 60	

Tires	Tire sizes	Wheel sizes	Snow chains
	21-inch FA: 265/35 R 21 101H XL RA: 305/30 R 21 104H XL	FA: 9.5J x 21, RO 60 RA: 11.5J x 21, RO 66	
Winter	19-inch FA: 225/55 R 19 103V XL RA: 275/45 R 19 108V XL Not for Turbo and Turbo S.)	FA: 8J x 19, RO 50 RA: 10J x 19, RO 47	RA only
	20-inch FA: 245/45 R 20 103V XL RA: 285/40 R 20 108V XL	FA: 9J x 20, RO 54 RA: 11J x 20, RO 60	

*) Not with Porsche Ceramic Composite Brake (PCCB) or Porsche Surface Coated Brake (PSCB).

Wheels:

Overview of Porsche wheels for summer and winter tires

Identification on inside of wheel:

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

19-inch Taycan S Aero wheel

FA: 8J x 19, RO 50

Part No. 9J1.601.025.B_FFF

RA: 10J x 19, RO 47

Part No. 9J1.601.025.C_FFF



Taycan S Aero wheel

20-inch Taycan Turbo Aero wheel

FA: 9J x 20, RO 54

Part No. 9J1.601.025.J_FFF

RA: 11J x 20, RO 60

Part No. 9J1.601.025.K_FFF



Taycan Turbo Aero wheel

20-inch Taycan Sport Aero wheel

FA: 9J x 20, RO 54

Part No. 9J1.601.025.E_FFF

RA: 11J x 20, RO 60

Part No. 9J1.601.025.F_FFF



Taycan Sport Aero wheel

20-inch Taycan TEQ Design wheel

FA: 8.5J x 20, RO 53 (summer)

Part No. 9J1.601.025.L_FFF

RA: 11J x 20, RO 60

Part No. 9J1.601.025.M_FFF

*Taycan TEQ Design wheel***21-inch Mission E Design wheel**

Only with PCCB or PSCB.

FA: 9.5J x 21, RO 60

Part No. 9J1.601.025.AA_FFF

RA: 11.5J x 21, RO 66

Part No. 9J1.601.025.AB_FFF

*Mission E Design wheel*

21-inch Exclusive Design wheel

FA: 9.5J x 21, RO 60

Part No. left: 9J1.601.025.Q_FFF

Part No. right: 9J1.601.025.AC_FFF

RA: 11.5J x 21, RO 66

Part No. left: 9J1.601.025.R_FFF

Part No. right: 9J1.601.025.AD_FFF



Exclusive Design wheel

21-inch Exclusive Design wheels with carbon-fibre aeroblades

FA: 9.5J x 21, RO 60

Part No. left: 9J1.601.025.S_FFF

Part No. right: 9J1.601.025.AE_FFF

RA: 11.5J x 21, RO 66

Part No. left: 9J1.601.025.T_FFF

Part No. right: 9J1.601.025.AF_FFF



Exclusive Design wheels with carbon-fibre aeroblades



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.

**Information**Wheel
Mounting:

using wheel bolts:

Tightening torque 160 Nm (118 ftlb.)

using central wheel lock:

Tightening torque 600 Nm (444 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 (NFO, NF1, NF2, ...) on a vehicle.**

Summer Tires:

Model	Tire size	Tire make and type
Taycan 4S/Turbo/Turbo S	FA: 225/55 R 19 103Y XL RA: 275/45 R 19 (108Y) XL	Continental Premium Contact 6 NFO
	Not for Turbo and Turbo S.	Hankook ventus S1 evo NFO
		Michelin Pilot Sport 4 NFO
	FA: 245/45 R 20 103Y XL RA: 285/40 R 20 (108Y) XL	Michelin Pilot Sport 4 NFO
	FA: 265/35 ZR 21 (101Y) XL RA: 305/30 ZR 21 (104Y) XL	Goodyear Eagle F1 Asymmetric3 NFO
		Pirelli P-ZERO NFO
For Turbo vehicles: not standard for USA		

All-Season
Tires:

Model	Tire size	Tire make and type
Taycan 4S/Turbo/Turbo S	FA: 225/55 R 19 103H XL RA: 275/45 R 19 (108H) XL	Continental ProContact RX NFO
	Not for Turbo and Turbo S.	Goodyear Eagle Touring NFO
		FA: 245/45 R 20 103H XL RA: 285/40 R 20 (108H) XL
	FA: 265/35 R 21 101 H XL RA: 305/30 R 21 104 H XL	Continental ProContact RX NFO

Winter Tires:

Model	Tire size	Tire make and type
Taycan 4S/Turbo/Turbo S	FA: 225/55 R 19 103V XL RA: 275/45 R 19 108V XL	Continental TS 860 S NFO
	Not for Turbo and Turbo S.	Pirelli P-Zero Winter NFO
	FA: 245/45 R 20 103V XL RA: 285/40 R 20 108V XL	Goodyear UltraGrip Performance Gen1 NFO
		Pirelli P-Zero Winter NFO

Arrow with inscription "Rotation"

= directional mounting

"Inside/Outside" inscription

= mounting on specified side only

Arrow with both inscriptions "Rotation" and "Inside/Outside"

= directional mounting on specified side only.



Information

The relevant legal regulations must be observed in the export countries!



Information

"N..." = Specification code of the tire, e.g. "NFO", "NF1", "NF2" ... 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.



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.**

**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 for summer tires + UHP

Wheel size	Taycan 4S							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
19-inch wheels	2.5 bar 250 kPa 36 psi	–	2.7 bar 270 kPa 39 psi	–	2.5 bar 250 kPa 36 psi	–	2.7 bar 270 kPa 39 psi	–
	–	2.2 bar 220 kPa 31 psi	–	2.6 bar 260 kPa 37 psi	–	2.3 bar 230 kPa 33 psi	–	2.6 bar 260 kPa 37 psi
20-inch wheels (245/45R20 & 285/40R20)	2.5 bar 250 kPa 36 psi	–	2.7 bar 270 kPa 39 psi	–	2.5 bar 250 kPa 36 psi	–	2.7 bar 270 kPa 39 psi	–
	–	2.2 bar 220 kPa 31 psi	–	2.7 bar 270 kPa 39 psi	–	2.3 bar 230 kPa 33 psi	–	2.7 bar 270 kPa 39 psi
20-inch wheels (255/40R20 & 295/35R20)	2.6 bar 260 kPa 37 psi	–	2.8 bar 280 kPa 41 psi	–	2.7 bar 270 kPa 39 psi	–	2.8 bar 280 kPa 41 psi	–
	–	2.4 bar 240 kPa 35 psi	–	2.9 bar 290 kPa 42 psi	–	2.6 bar 260 kPa 37 psi	–	2.9 bar 290 kPa 42 psi

21-inch wheels	2.6 bar 260 kPa 37 psi	-	2.8 bar 280 kPa 41 psi	-	2.7 bar 270 kPa 39 psi	-	2.8 bar 280 kPa 41 psi	-
	-	2.5 bar 250 kPa 36 psi	-	3.0 bar 300 kPa 44 psi	-	2.7 bar 270 kPa 39 psi	-	3.0 bar 300 kPa 44 psi

Wheel size	Taycan Turbo/Turbo S							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
20-inch wheels (245/4 5R20 & 285/40 R20)	2.5 bar 250 kPa 36 psi	-	2.7 bar 270 kPa 39 psi	-	2.6 bar 260 kPa 37 psi	-	2.7 bar 270 kPa 39 psi	-
	-	2.3 bar 230 kPa 33 psi	-	2.7 bar 270 kPa 39 psi	-	2.5 bar 250 kPa 36 psi	-	2.7 bar 270 kPa 39 psi
20-inch wheels (255/4 OR20 & 295/35 R20)	2.7 bar 270 kPa 39 psi	-	2.9 bar 290 kPa 42 psi	-	2.8 bar 280 kPa 41 psi	-	2.9 bar 290 kPa 42 psi	-
	-	2.5 bar 250 kPa 36 psi	-	3.0 bar 300 kPa 44 psi	-	2.7 bar 270 kPa 39 psi	-	3.0 bar 300 kPa 44 psi
21-inch wheels	2.7 bar 270 kPa 39 psi	-	2.9 bar 290 kPa 42 psi	-	2.8 bar 280 kPa 41 psi	-	2.9 bar 290 kPa 42 psi	-
	-	2.6 bar 260 kPa 37 psi	-	3.1 bar 310 kPa 45 psi	-	2.8 bar 280 kPa 41 psi	-	3.1 bar 310 kPa 45 psi

Wheel size	Taycan Basic							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
19-inch wheels	2.2 bar 220 kPa 31 psi	–	2.3 bar 230 kPa 33 psi	–	2.2 bar 220 kPa 31 psi	–	2.3 bar 230 kPa 33 psi	–
	–	2.1 bar 210 kPa 30 psi	–	2.5 bar 250 kPa 36 psi	–	2.2 bar 220 kPa 31 psi	–	2.5 bar 250 kPa 36 psi
20-inch wheels (245/4 5R20 & 285/40 R20)	2.2 bar 220 kPa 31 psi	–	2.3 bar 230 kPa 33 psi	–	2.2 bar 220 kPa 31 psi	–	2.3 bar 230 kPa 33 psi	–
	–	2.1 bar 210 kPa 30 psi	–	2.6 bar 260 kPa 37 psi	–	2.2 bar 220 kPa 31 psi	–	2.6 bar 260 kPa 37 psi
20-inch wheels (255/4 OR20 & 295/35 R20)	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–
	–	2.3 bar 230 kPa 33 psi	–	2.8 bar 280 kPa 41 psi	–	2.4 bar 240 kPa 35 psi	–	2.8 bar 280 kPa 41 psi
21-inch wheels	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–
	–	2.4 bar 240 kPa 35 psi	–	2.9 bar 290 kPa 42 psi	–	2.5 bar 250 kPa 36 psi	–	2.9 bar 290 kPa 42 psi

Standard tire pressure for all-season tires

Wheel size	Taycan 4S							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
19-inch wheels	2.5 bar 250 kPa 36 psi	–	2.7 bar 270 kPa 39 psi	–	2.5 bar 250 kPa 36 psi	–	2.7 bar 270 kPa 39 psi	–
	–	2.2 bar 220 kPa 31 psi	–	2.6 bar 260 kPa 37 psi	–	2.3 bar 230 kPa 33 psi	–	2.6 bar 260 kPa 37 psi

20-inch wheels (245/45R20 & 285/40R20)	2.5 bar 250 kPa 36 psi	-	2.7 bar 270 kPa 39 psi	-	2.5 bar 250 kPa 36 psi	-	2.7 bar 270 kPa 39 psi	-
	-	2.2 bar 220 kPa 31 psi	-	2.7 bar 270 kPa 39 psi	-	2.3 bar 230 kPa 33 psi	-	2.7 bar 270 kPa 39 psi
21-inch wheels	2.6 bar 260 kPa 37 psi	-	2.8 bar 280 kPa 41 psi	-	2.7 bar 270 kPa 39 psi	-	2.8 bar 280 kPa 41 psi	-
	-	2.5 bar 250 kPa 36 psi	-	3.0 bar 300 kPa 44 psi	-	2.7 bar 270 kPa 39 psi	-	3.0 bar 300 kPa 44 psi

Wheel size	Taycan Turbo/Turbo S							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
20-inch wheels (245/45R20 & 285/40R20)	2.5 bar 250 kPa 36 psi	-	2.6 bar 260 kPa 37 psi	-	2.5 bar 250 kPa 36 psi	-	2.6 bar 260 kPa 37 psi	-
	-	2.3 bar 230 kPa 33 psi	-	2.7 bar 270 kPa 39 psi	-	2.4 bar 240 kPa 35 psi	-	2.7 bar 270 kPa 39 psi
21-inch wheels	2.6 bar 260 kPa 37 psi	-	2.8 bar 280 kPa 41 psi	-	2.7 bar 270 kPa 39 psi	-	2.8 bar 280 kPa 41 psi	-
	-	2.6 bar 260 kPa 37 psi	-	3.0 bar 300 kPa 44 psi	-	2.7 bar 270 kPa 39 psi	-	3.0 bar 300 kPa 44 psi

Wheel size	Taycan Basic							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
19-inch wheels	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–
	–	2.2 bar 220 kPa 31 psi	–	2.7 bar 270 kPa 39 psi	–	2.3 bar 230 kPa 33 psi	–	2.7 bar 270 kPa 39 psi
20-inch wheels (245/4 5R20 & 285/40 R20)	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–	2.3 bar 230 kPa 33 psi	–	2.5 bar 250 kPa 36 psi	–
	–	2.2 bar 220 kPa 31 psi	–	2.7 bar 270 kPa 39 psi	–	2.4 bar 240 kPa 35 psi	–	2.7 bar 270 kPa 39 psi
21-inch wheels	2.4 bar 240 kPa 35 psi	–	2.6 bar 260 kPa 37 psi	–	2.5 bar 250 kPa 36 psi	–	2.6 bar 260 kPa 37 psi	–
	–	2.5 bar 250 kPa 36 psi	–	3.1 bar 310 kPa 45 psi	–	2.7 bar 270 kPa 39 psi	–	3.1 bar 310 kPa 45 psi

Standard tire pressure for winter tires

Wheel size	Taycan 4S							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
19-inch wheels	2.7 bar 270 kPa 39 psi	–	3.0 bar 300 kPa 44 psi	–	2.8 bar 280 kPa 41 psi	–	3.0 bar 300 kPa 44 psi	–
	–	2.4 bar 240 kPa 35 psi	–	2.9 bar 290 kPa 42 psi	–	2.6 bar 260 kPa 37 psi	–	2.9 bar 290 kPa 42 psi
20-inch wheels (245/4 5R20 & 285/40 R20)	2.7 bar 270 kPa 39 psi	–	3.0 bar 300 kPa 44 psi	–	2.7 bar 270 kPa 39 psi	–	3.0 bar 300 kPa 44 psi	–
	–	2.4 bar 240 kPa 35 psi	–	3.0 bar 300 kPa 44 psi	–	2.5 bar 250 kPa 36 psi	–	3.0 bar 300 kPa 44 psi

Wheel size	Taycan Turbo/Turbo S							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
20-inch wheels (245/45R20 & 285/40R20)	2.7 bar 270 kPa 39 psi	-	2.9 bar 290 kPa 42 psi	-	2.8 bar 280 kPa 41 psi	-	2.9 bar 290 kPa 42 psi	-
	-	2.5 bar 250 kPa 36 psi	-	3.0 bar 300 kPa 44 psi	-	2.7 bar 270 kPa 39 psi	-	3.0 bar 300 kPa 44 psi

Wheel size	Taycan Basic							
	4-seater				5-seater			
	Part load		Full load		Part load		Full load	
	FA	RA	FA	RA	FA	RA	FA	RA
19-inch wheels	2.4 bar 240 kPa 35 psi	-	2.7 bar 270 kPa 39 psi	-	2.5 bar 250 kPa 36 psi	-	2.7 bar 270 kPa 39 psi	-
	-	2.3 bar 230 kPa 33 psi	-	2.9 bar 290 kPa 42 psi	-	2.5 bar 250 kPa 36 psi	-	2.9 bar 290 kPa 42 psi
20-inch wheels (245/45R20 & 285/40R20)	2.4 bar 240 kPa 35 psi	-	2.7 bar 270 kPa 39 psi	-	2.5 bar 250 kPa 36 psi	-	2.7 bar 270 kPa 39 psi	-
	-	2.4 bar 240 kPa 35 psi	-	2.9 bar 290 kPa 42 psi	-	2.5 bar 250 kPa 36 psi	-	2.9 bar 290 kPa 42 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.

Porsche offers the following snow chains as accessories:

Tire size	Porsche Part No.	Type of snow chain
275/45 R 19 M+S	9J1.073.690	Quick fit
285/40 R 20 M+S	9J1.073.690	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 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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