

Snow Chain



Driving with snow chains

- Danger of injury
 - Risk of material damage
- ⇒ Snow chains may **ONLY** be used for driving on snow-covered and icy roads.
- ⇒ On partly snow-covered roads: Drive much more slowly.
- ⇒ Driving with snow chains in off-road areas has **NOT** been tested and approved.
- ⇒ Allow for change in vehicle handling (see also Owner's Manual).
- ⇒ Avoid spinning wheels installed with snow chains.
- ⇒ Observe recommended maximum speed of 30 MPH (50 km/h) on roads that are well covered with snow.
- ⇒ Immediately after installing and after driving a short distance (150–300 ft/50 – 100 m): Check that snow chains are perfectly centered and re-tension if necessary.
- ⇒ After a distance of 12 miles (20 km) and after test emergency braking: Check that snow chains are installed correctly and check for signs of wear.
- ⇒ If the installed snow chain hits/touches against a curb: Check that the snow chain is installed correctly and check for signs of wear.
- ⇒ Before starting **EVERY** trip: Check that the snow chain is installed/positioned correctly on the wheel.
- ⇒ When towing a trailer, follow the instructions in the Owner's Manual and observe all road traffic laws.



Installing/removing snow chains

- Danger of injury
 - Risk of damage to the wheel housing, fender and other vehicle parts
- ⇒ Learn how to handle snow chains by installing/removing them when dry as a test.
- ⇒ **AFTER** installation: Check clearance of the wheel **WITH** snow chain in extreme positions (compressed).
- ⇒ Always install/remove snow chains on level ground.
- ⇒ Always install/remove snow chains when the vehicle is stationary and secured as described in the Owner's Manual.
- ⇒ As soon as the wheel installed with the chain moves: Keep **ALL** parts of the body (fingers, hands and hair) a safe distance away.

- ⇒ When tightening and loosening the tensioner: Keep ALL parts of the body (fingers, hands and hair) a safe distance away.
- ⇒ For greater visibility and for your own safety when installing/removing snow chains, wear a Hi-vis jacket (e.g. from PORSCHE EQUIPMENT).
- ⇒ Read the Installation and Conversion Instructions carefully and follow these instructions exactly during installation/removal.
- ⇒ Observe the specified tire pressure (see Owner's Manual). Reducing the tire pressure for installation/removal is NOT permitted.
- ⇒ Observe the snow chains' substantial own weight.

 **WARNING****Using snow chains**

- Danger of injury
- Risk of material damage
- ⇒ Snow chains may **ONLY** be used if the vehicle and tire and rim combination have been approved by Porsche for the use of snow chains.
- ⇒ **Incorrect and improper use of snow chains, e.g. pulling, lifting or other actions, is NOT permitted! After installing snow chains correctly, ONLY use them for driving on suitable surfaces.**
- ⇒ **The use of one snow chain is NOT permitted. ALWAYS use snow chains on the left and right side of the vehicle when installing them on the rear axle.**
- ⇒ **Visually check previously used snow chains before installing. Damaged or broken snow chains must NEVER be used. This applies even if the wire diameter of a chain link is more than half worn in just a small area.**
- ⇒ **Broken chain elements can be repaired at retail outlets. ONLY use genuine spare parts for repairs.**
- ⇒ **After use: Clean/wash snow chains and leave them to dry. Store snow chains away from damaging chemicals.**

**Information**

For further information/instructions for using snow chains, see "Tires and wheels" ⇒ "Using snow chains" in the Panamera Owner's Manual.

**Information**

Please inform the customer of this accordingly.

Revision: This bulletin replaces bulletin Group 4 34/16, dated November 2016.

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Model Year: **As of 2017**

Cause: **Instructions for assembly and use**

Restrictions: **NOT** approved for use on the front axle!

NOT approved for all-weather tires (all-season tires)!

ONLY approved for winter complete wheels on the rear axle with the following dimensions:

- 19-inch winter wheel (295/40 R19 M+S on 10.5J x 19 RO 62 rim)¹
- 20-inch winter wheel (315/35 R20 M+S on 10.5J x 20 ET71 rim)
- 21-inch winter wheel (315/30 R21 M+S on 10.5J x 21 ET71 rim)

¹ Observe permissible wheel and tire approval on the rear axle for the respective vehicle type!

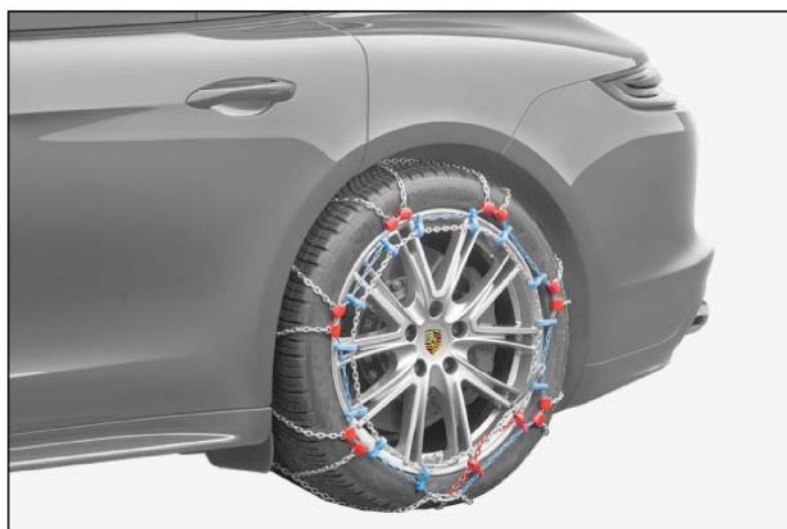


Figure 1

Notes: Snow chains:

- have been tested and approved for the rear axle of the Panamera (⇒ Figure 1).
- have plastic elements (clips, eyelets and sleeve on the spring steel clip) to protect the rim from damage.
- can be installed easily in the narrow wheel housing on the rear axle using the spring steel clip.
- can be repaired by retail outlets if necessary.

Parts Info: **971.044.690.A¹**
971.044.690.B

⇒ Snow chain "19-inch", set for 295/40 R19 M+S wheel
⇒ Snow chain "20/21 inch", set for 315/35 R20 M+S and
315/30 R21 M+S wheels

Parts List:

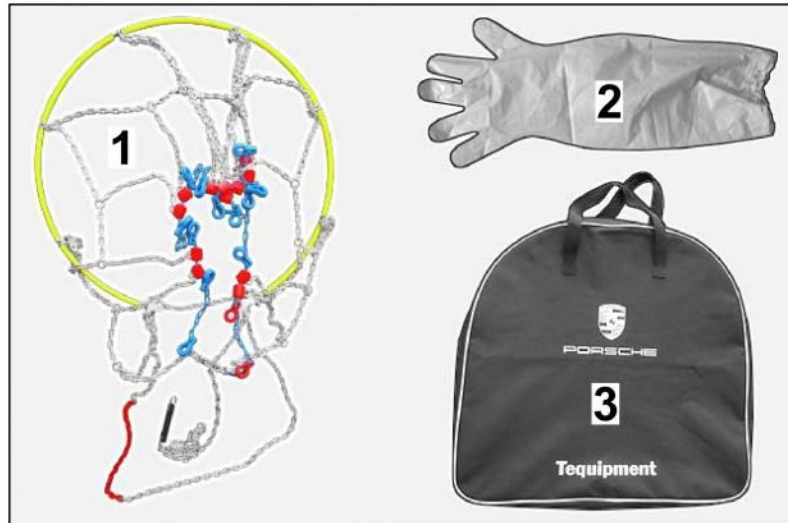


Figure 2

— — — — ²	2x	Snow chain ⇒ Figure 2-1-
— — — —	2x	Fitting glove ⇒ Figure 2-2-
— — — —	1x	Bag ⇒ Figure 2-3-
— — — —	1x	Instructions for use (not shown)

² Size depends on the respective set!

Technical Data: – Min. Spring steel clip diameter ³ (closed): approx. 490 mm/ 19.29 in
 – Min. Spring steel clip diameter ⁴ (closed): approx. 540 mm/ 21.26 in
 – Max. Spring steel clip diameter (opening dimension): approx. 990 mm/ 38.98 in
 – Empty weight⁵: approx. 3050 g/ 6.72 lbs
 – **Permissible. Maximum speed (v_{max}): 50 km/h (30 mph)**

³ 19-inch

⁴ 20-inch/21-inch

⁵ One piece

Assembly:

1 Preliminary work

- 1.1 Check whether the installed tire/wheel combination on the rear axle is listed/approved in the Manufacturer's Certificate (⇒ "Panamera" Driver's Manual, section on "Tires and wheels")
- 1.2 **ONLY** for vehicles with rear axle steering including Power steering Plus (I-no. 0N5): Set "Jack and snow chain mode" (⇒ "Panamera" Driver's Manual, section on "Vehicle settings")
 - 1.2.1 Select the "CAR" sub-menu in Porsche Communication Management (PCM).
 - 1.2.2 Select the "Chassis" menu.

- 1.2.3 Select the "Rear axle steering" menu and tick the relevant box. Snow chain mode is now active.
- 1.3 **ONLY** vehicles with Porsche Active Suspension Management (PASM) with air suspension and levelling system (I-no. 1BK):
Check chasis and if necessary, set the chasis level to "Comfort" (standard setting) (⇒ "Panamera" Driver's Manual, section on "Porsche Active Suspension Management (PASM) with air suspension and levelling system").
- 1.4 Remove snow and ice from around the wheel housings on the rear axle.
- 1.5 Unpack snow chain and read Installation and Conversion Instructions carefully.
- 1.6 Check previously used snow chain for damage/breaks.
The wire diameter must **NOT** be worn by more than half at any point!

2 Fit snow chain

2.1 Position snow chain on the wheel

2.1.1 Grasp the snow chain at the ends of the spring steel clip (⇒ *Figure 3-1-*) with the opening facing downwards.

- 1 – Spring steel clip
- 2 – Chain net

2.1.2 Arrange the snow chain's chain net (⇒ *Figure 3*).

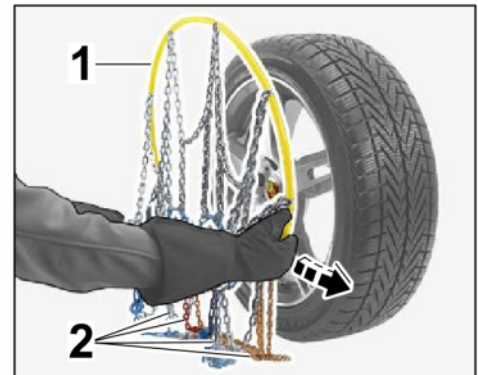


Figure 3

2.1.3 Pull the ends of the spring steel clip apart as far as possible (⇒ *Figure 4 -A-*) and guide the snow chain over the wheel from above (⇒ *Figure 4 -B-*).

- 1 – Ends of spring steel clip

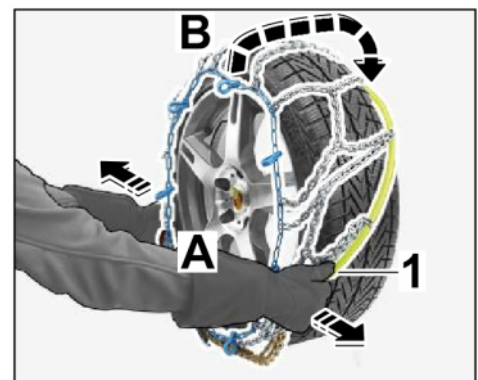


Figure 4

2.1.4 Guide the ends of the spring steel clip at the bottom of the wheel behind the wheel (⇒ *Figure 5-C-*).

- 1 – Ends of spring steel clip
- 2 – Chain bar

2.1.5 Carefully let the ends of the spring steel clip go so that the spring steel clip springs together.

2.1.6 Arrange the chain net and make sure that no bars of the chain are caught in the tread (⇒ *Figure 5-Magnifier-*).



Figure 5

2.2 Tension snow chain on the wheel

2.2.1 Drive forward or back to turn the wheel by approx. 1/6 (⇒ *Figure 6-Arrows-*).

- 1 – Tensioning chain
- 2 – Locking plate

The tensioning chain (⇒ *Figure 6-1-*) must **NOT** be under the wheel.



Figure 6

2.2.2 Check that the tensioning chain at the tensioning point and deflection roller (end of spring steel clip on inside of wheel) (⇒ *Figure 7-A-*) is running parallel and is **NOT** twisted (⇒ *Figure 7-B-*).

- 1 – Tensioning chain
- 2 – Deflection roller (end of spring steel clip)
- 3 – Tensioning point
- A – Tensioning chain routing: "OK"
- B – Tensioning chain routing: "NOT OK"

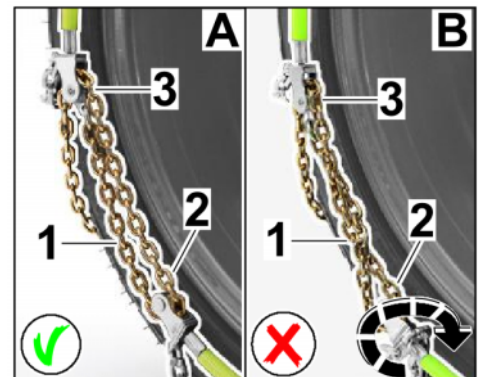


Figure 7

Turn deflection roller for spring steel clip if necessary (⇒ *Figure 7-Arrow-*.)

2.2.3 Grasp tensioning chain in the wheel running surface area and pull it firmly. (⇒ *Figure 8-A-*).

- 1 – Tensioning chain
- 2 – Ends of spring steel clip

The spring steel clip on the inside of the wheel closes (⇒ *Figure 8-B-*).

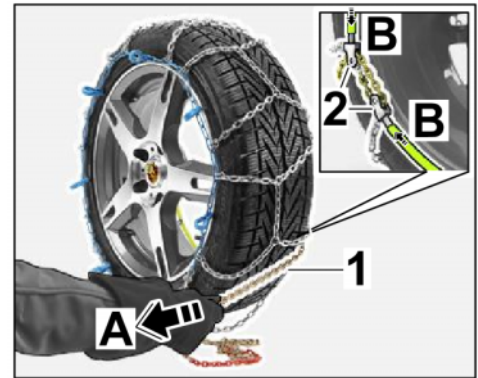


Figure 8

2.2.4 Pull the tensioning chain tightly through the locking plate (⇒ *Figure 9-C-*).

- 1 – Tensioning chain

Engage chain link of the tensioning chain in the slot on the locking plate (⇒ *Figure 9-D-*).

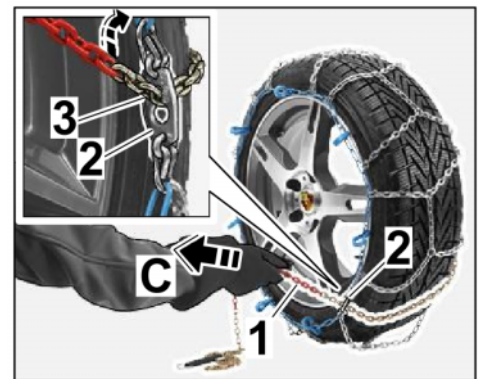


Figure 9

2.3 Secure the snow chain on the wheel

- 1 – Bungee cord with hook
- 2 – Plastic eyelet

2.3.1 Guide the tensioning chain further up to the next plastic eyelet.

2.3.2 Feed bungee cord with hook through the plastic eyelet (⇒ *Figure 10*).

2.3.3 Feed the rest of the tensioning chain in a circle (⇒ *Figure 10-Arrow-*) over the complete wheel through the remaining plastic eyelets.

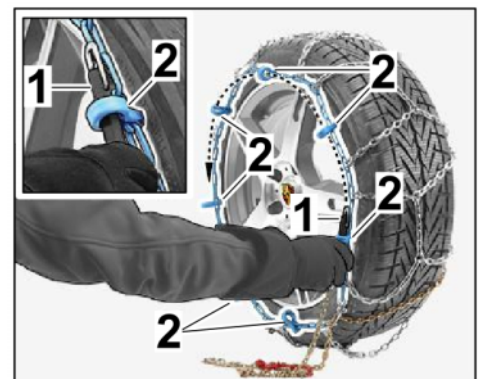


Figure 10

2.3.4 Engage hook of the bungee cord slightly tensioned into a chain link on the outer chain or tensioning chain.

- 1 – Bungee cord with hook
- 2 – Chain link on outer chain
- 3 – Outer chain
- 4 – Tensioning chain

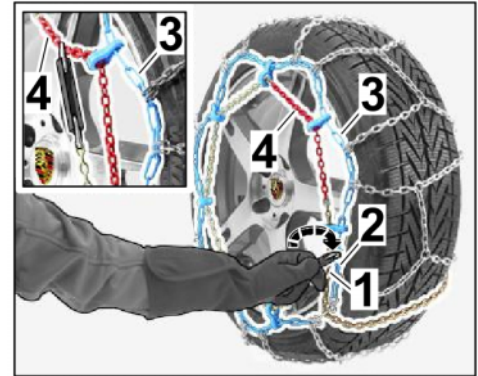


Figure 11

2.4 Check that the snow chain is installed correctly on the wheel

- 1 – Area marked in red – tensioning chain
- 2 – Locking plate

- The area marked in red on the tensioning chain must be pulled completely through the slot on the locking plate. The distance between the area marked in red and the slot on the locking plate (dimension X ⇒ *Figure 12 -X-*) can vary depending on the tire size.
- Position of deflection roller/tensioning point (inside of wheel): Must **NOT** be lying on the running surface of the tire or touching the road.

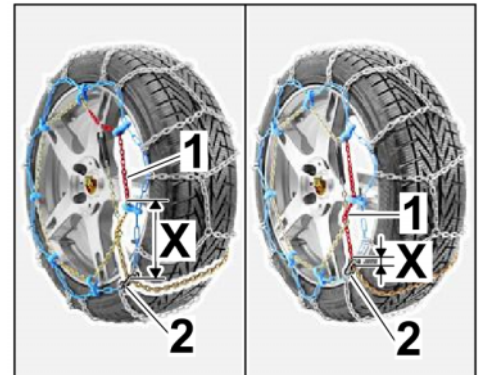


Figure 12

Removal:

- 3 Remove snow chain
 - 3.1 Remove snow and ice from around the wheel housings on the rear axle.
 - 3.2 Loosen snow chain.

3.2.1 To make it easier to remove the snow chain: Drive/roll the vehicle until the locking plate for the snow chain is positioned according to ⇒ *Figure 13-Circle-*.

- 1 - Locking plate
- 2 - Bungee cord with hook
- 3 - Tensioning chain

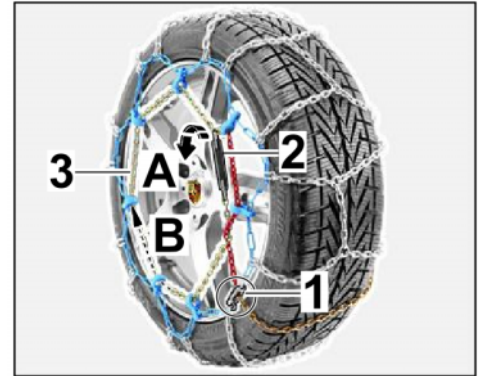


Figure 13

3.2.2 Disengage bungee cord with hook from the chain link (⇒ *Figure 13-A-*).

3.2.3 Feed the tensioning chain through the plastic eyelets as far as the locking plate (⇒ *Figure 13-B-*).

3.2.4 Disengage the chain link at the locking plate and pull the tensioning chain through the locking plate (⇒ *Figure 14-C-*).

- 1 - Locking plate
- 2 - Tensioning chain
- 3 - Chain elements

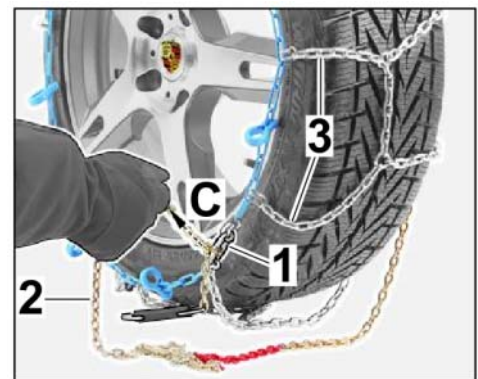


Figure 14

3.2.5 Loosen chain elements (⇒ *Figure 14-3-*) of the snow chain on the tire.

3.3 Pull snow chain off the wheel.

3.3.1 Pull the ends of the spring steel clip apart as far as possible (⇒ *Figure 15-A-*) and pull the snow chain off the wheel from above (⇒ *Figure 15-B-*).

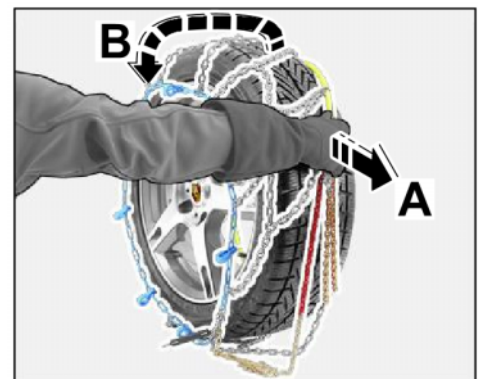


Figure 15

- 3.3.2 Set the snow chain down on the road (⇒ *Figure 16*).
- 3.3.3 Carefully drive the vehicle off the snow chain (⇒ *Figure 16 -Arrows-*).
- 3.3.4 Shake out the snow chain and stow it away.



Figure 16

Maintenance: 4 Snow chain maintenance

- Wash snow chain in hot water immediately after use and dry it.
- Visually inspect the snow chain for signs of damage and adequate wire strength (chain links).
- Snow chains must **NOT** be oiled! Spray snow chains with commercially available anti-rust agent if necessary.
- After drying, stow dry snow chains back in the vehicle if necessary.
- Snow chains are made of high-quality steel, but are not rust-resistant. A small amount of rust will not impair the quality of the snow chains.

44 39 24 00: –Snow chains (2 pieces) installed on the rear axle–
 Includes: Read instructions.
 Check snow chains for damage before use and fit them.
 Check fitting and re-tension after a trip of 50–100 m/ 150 —
 300 ft. Labor time: **50 TU**

44 39 20 00: –Remove/Fit snow chains (2 pieces) on the rear axle–
 Includes: Read instructions.
 Remove installed snow chains.
 Check snow chains for damage before use and fit them.
 Check fitting and re-tension after a journey of 50–100 m/ 150
 — 300 ft. Labor time: **75 TU**

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