

Technical Bulletin

Model
6 Cyl.

Group
6

Subject

Repairing Cabriolet Top

Part Identifier
6101

Number
9508

ATTENTION: Service Manager / Service Technician

Models Affected: *911 Carrera Model Year 1995*

General Information: As we gather experience with the new 911, Porsche Cars N.A. has collected information used to correct concerns raised by consumers. Concerns for which procedures have been developed are as follows:

1. Rattle/tinging noises in the side roof frames in the area of the tension springs/cables.
2. Water leak between the top left and right windshield seat and the top frame seat.
3. Wind noises in the areas of the B-pillar with a vehicle speed of approximately 50 MPH.
4. Rear window has vertical buckle marks.
5. Outer top material in the rear left and right sides curls up.
6. Flutter noises from the top material in the area of folding bow and elastic tensioning straps.

If a customer raises any of the above concerns, follow the appropriate repair procedure outlined below.

Concern 1. Rattle/tinging noises in the side roof frames in the area of the tension springs/cables.
This noise can occur in the left and/or right side roof frames when the vehicle is driven over rough roads.

Cause: The tension spring for the roof cable makes contact with the metal flange of the roof frame.

The roof frame was changed in production as of November 1994.

Repair: Remove metal from the flange with a grinder or cutter (Figure 1).
Note: Use goggles to protect eyes!!!

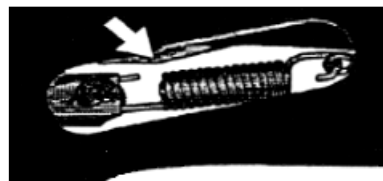


Figure 1

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Concern 1. Cont'd

- Open Cabriolet top and remove side roof frame seal and spring.
- Grind/cut the metal flange until a 5.0 mm clearance is reached (arrow in Figure 1).

Warranty Information:

Damage Code: 6143
Repair Time: 40 TU one side, 70 TU both sides.
Labor Operation: 6143 4900 - Repair Cabrio Top per Tech Bulletin (1 side).
6143 5000 - Repair Cabrio Top per Tech Bulletin (2 sides).

Concern 2.

Minor Water leaks between the top left and right windshield seals and the top frame seal.

Cause:

The front area of the top seal in the area of the door frame has no support on the top frame. When closing the Cabrio top, the roof frame seal is pushed up.

Reinforcement strips are installed in production as of July 1994.

Repair:

Install a reinforcement strip as shown in Figure 2.

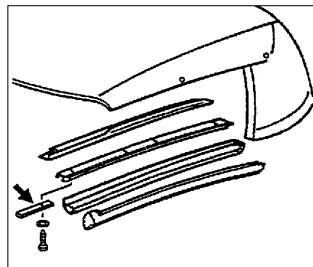


Figure 2

- Open the Cabrio top fully, pull out the front end of the top frame seal and remove the front screw.
- Install the reinforcement strip on the top of the seal track with a new sheet metal screw 3.5 x 16mm.

Important:

After installing the reinforcement strips, a visual and mechanical check should be performed. Ensure that the seal pressure on the window frame is not too high. If this occurs, adjust the door frame since otherwise the seal will be damaged.

Warranty Information:

Damage code: 0014
Repair Time: 20 TU both sides without door frame adjustments.
Labor Operation: 0014 5000 - Repair Cabrio Top per Tech Bulletin.

Parts Information:

Reinforcement Strip: 2 x 993 799 561 11
Screw 3.5 x 16mm 2 x 900 143 084 07



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Concern 3.

Wind noises in the area of the B-pillar with a vehicle speed of approximately 50 MPH.

Causes:

- a. Air gaps between the top material and the seal transition on the "B" pillar/roof frame.
- b. Air gap between the Cabrio frame ("B" pillar) and vehicle body.
- c. The transition of the roof frame to the main bow is not flushed or has a light offset.
- d. Due to the settling of the "B" pillar seal, it is possible that the holding bolts become loose.

Solutions were carried out in production as follows:

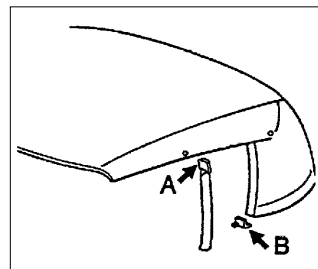


Figure 3

- a. As of July, 1994, the "B" pillar seal is modified as shown in Figure 3 Arrow A.
- b. As of November 1994, the "B" pillar seal is modified on the Cabrio top frame Figure 3 arrow B.
- c. As of the end of October 1994, the roof frame is wider.
- d. As of the end of January 1995, the retaining bolts on the "B" pillar seal received a washer.

Repair:

Solutions a and b (changed seals and washers) can be fitted retroactively.

Solution c, wider roof frame: A work Procedure is in preparation and the parts will be available at a later date (Figure 4).

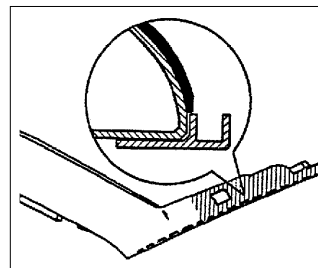


Figure 4

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Concern 3. Cont'd

"B" Pillar seal installation: (Solution a and d).

- When installing the "B" pillar seal, the securing bolts should have washers.
- The flap on the seal should be glued on.
- Align the seal to the door window.

Roof frame widening: (Solution c, parts will be available at a later date)

- Open the cabrio top to a vertical position.
- Clean the area of the roof frame for gluing purposes (Figure 4 in the area of the hatch marks).
- Line up the widening piece on the cut-out for the top bolts and move the widening piece to the rain gutter (Figure 4 detail).

Warranty Information:

Damage code: 6145
 Repair time: 50 TU
 Labor Operation: 6145 4900 - Repair Cabrio Top Seals per Tech Bulletin .

Parts Information:

- | | |
|--------------------|---------------------------|
| 993 561 321 00 8VB | Seal for "B" Pillar left |
| 993 561 322 00 8VB | Seal for "B" Pillar right |
| 993 561 471 00 | Seal for roof frame left |
| 993 561 472 00 | Seal for roof frame right |
| 900 151 027 02 | Washer (4 per seal) |
| * 993 561 503 00 | Roof frame widener left |
| * 993 561 504 00 | Roof frame widener right |

* The above mentioned roof frame wideners will be available at a later date.

Concern 4.

Rear window has vertical buckle marks.

Cause:

The radius for storing the rear window is too small.

As a solution, from the end of June 1994, spring supports are installed on the left and right sides of the top tensioning frame. With this solution, proper storage of the rear window is assured.

Repair:

The two spring supports can be installed into earlier vehicles using pop-rivets (Arrows in figure 5 and 6).

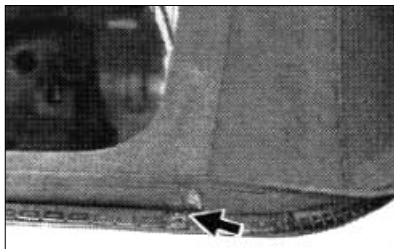


Figure 5

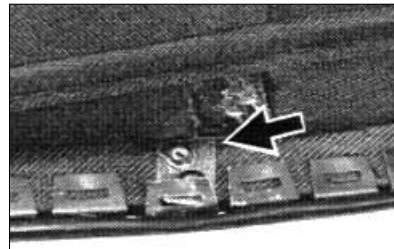


Figure 6



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Concern 4. Cont'd

- Fully close and lock the Cabrio top.
- Using drawing number 1, on page 9, mark and center punch the hole locations on the spring support.
- Pull up the Cabrio top material in the area of the rear window. Cut the material approximately 25 mm next to the top longitudinal seam for 8mm (Figure 6)

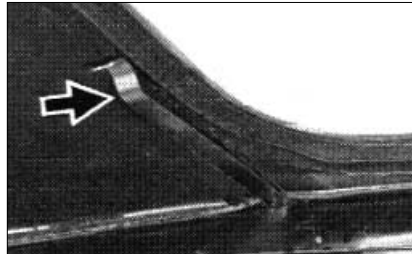


Figure 7

Important: Do not damage the seam!!!

- Open the headliner zipper.
- Install the spring supports through the cuts in the material from the inside of the vehicle (Figure 7). For holding the alignment of the spring supports, a second person is needed.
- Bend open the steel tabs on the tensioning bow for the Cabrio top material and install the spring support as shown in Figure 6.
- Drill one 3.2 mm hole through the spring support and into the tensioning bow and secure the spring support so that it is parallel with the rear window opening (Figure 7).
- Drill the second 3.2 mm hole through the spring support and into the tensioning frame. Install the second pop-rivet.
- Close the steel tabs on the tensioning bow.
- Using sealer, close off the heads of the pop-rivets, seal the cut in the Cabrio top material and flip the top material down into place.
- Close the zipper for the inner liner.
- Open and close the Cabrio top several times and inspect the folding of the rear window.

Important:

With the Cabrio top in the closed position, the spring supports must not be visible from the outside (Top material must be smooth). If the spring supports can be visually detected from the outside, bend the spring supports toward the inside of the vehicle slightly.

On Cabrio tops that have the spring supports installed and the rear window requires replacement, the inner plate of the special tool for installing the rear window must be installed between the spring supports and the Cabrio top material. Otherwise, the melting-in of the rear window in the areas of the spring supports will not occur.

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Concern 4. Cont'd

Warranty Information:

Damage Code: 6485
Repair Time: 70 TU
Labor Operation: 6485 5500 - Repair Cabrio Rear Window per Tech Bulletin.

Parts Information:

2 x 993 561 563 00 Spring Support
1 x 999 915 400 40 Sealer.

Concern 5:

Cabrio top material on the rear left and right sides lifts up.

Cause:

The top material has been cut too close.

In production as of January 1995, a plastic filler piece is installed. As a repair, a filler piece made from aluminum can be service installed into the Cabrio top material.

- Fully close and lock the Cabrio top.
- Refer to drawings 2 and 3 on page 9. Copy these drawings and cut them out. Place the cut-out onto the vehicle top on the correct sides and check its contour against that of the vehicle (Figure 8).

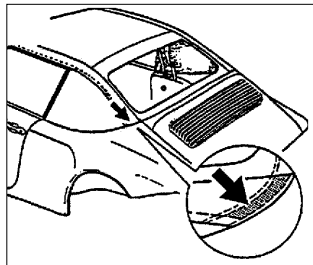


Figure 8

Important:

The Cabrio top can be different between the left and right sides.

- Trace the template onto a 1.0 mm thick sheet of aluminum and cut or saw the piece out. **All edges must be made smooth and rounded. No sharp edges! Otherwise, the top canvas may get damaged.**
- Flip up the Cabrio top material in the area as shown in Figure 8.
- Carefully loosen the glued area between the top material and the seam using an appropriate tool such as 9134 or 9187.

Shield the car body in this area to avoid paint damage! Be certain not to damage the Cabrio top material when opening the glued seam.



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Concern 5. Cont'd

- Carefully insert the aluminum filler piece into the opened seam of Cabrio top (Figure 9).

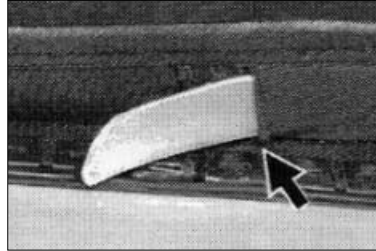


Figure 9

- The aluminum filler piece must fit fully into the seam slot and should not protrude from the seam slot.
- Flip down the Cabrio top material and form the aluminum filler piece to the body contour.

Warranty Information:

Damage code: 6128
Repair time: 140 TU (both sides)
Labor Operation: 6128 5000 - Repair Cabrio Top per Tech Bulletin.

Concern 6.

Flutter noises from the Cabrio top material in the area of the folding bow and tensioning straps.

Cause:

The tensioning straps touch the top material.

In production, as of February 1995, the tensioning straps are attached directly to the main top bow with brackets and to the folding bow with clamping plates.

Repair Procedure:

The new fastening for the tensioning straps can be service installed on earlier vehicles but must be done on both sides.

- Open the Cabrio top fully (remove windstop if installed).
- In the area of the main bow hinge, move the Cabrio top material to the side and check if the folding bow tension strap is fully glued on the main bow. If not, reglue the strap to the main bow.
- Cut the tensioning strap off flush with the edge of the main bow.
- Cut the tensioning strap off at the folding bow.
- Position the new tensioning strap bracket on the main bow and mark the holes for drilling. The bracket should be located approximately 1-2 mm below the upper edge of the main bow (Figure 10).



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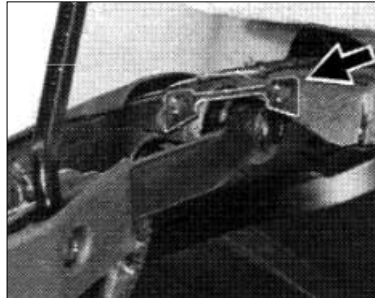


Figure 10

- Drill holes with a 3.3mm drill bit approximately 12mm deep.
- Slightly countersink the holes and tap them for M4 threads. Remove the shavings carefully.
- Install the clamping plate onto the new tensioning strap and install onto the folding bow.

Note:

The cut-out in the clamping plate must point to the front and after installation must move freely on the folding bow.

- Install the rear attaching brackets onto the main bow with four M4 screws.

Important:

- Check for proper clearance of the top folding bow to the side rails of the Cabriolet top frame (dimension "B" in Figure 11). Dimension "B" should be 5 to 7 mm. If less, it is necessary to rework the side rails in the area indicated by the arrow in Figure 11 to gain clearance for the folding bow.
- Remove the plastic clamps near the folding bow on the right side that are holding the Cabriolet top wiring harness to the cabriolet top frame. Use electrical tape to secure the harness to the top frame. **Be certain the harness does not interfere with the smooth operation of the top folding bow.**

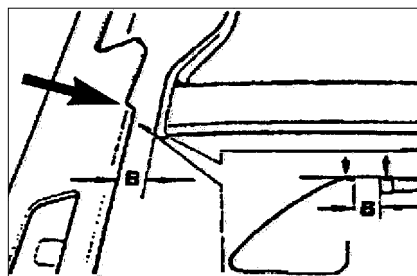


Figure 11



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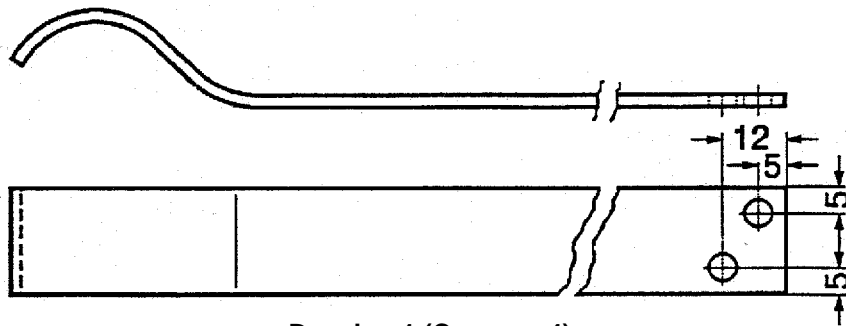
Concern 6. Cont'd

Warranty Information:

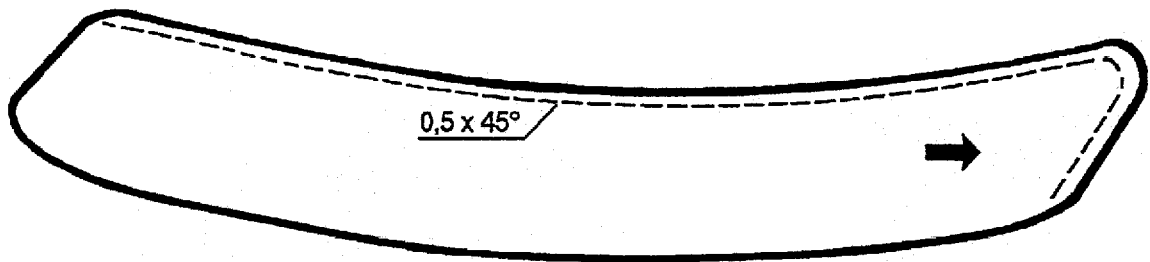
Damage Code: 6130
 Repair Time: 130 TU
 Labor Operation: 6130 5500 - Repair Cabrio Top Frame per Tech Bulletin.

Parts information:

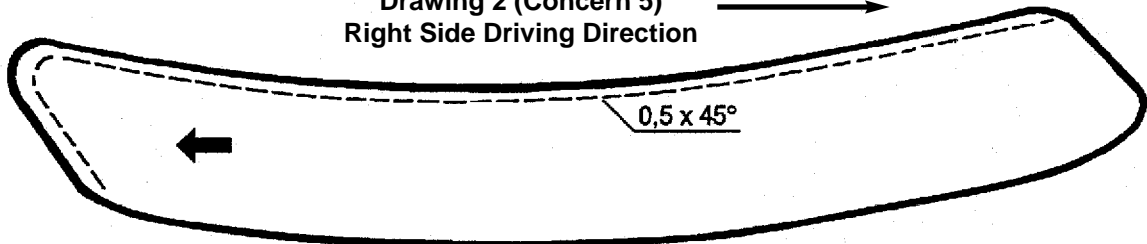
2 x 993 561 565 00	Bracket
4 x 900 269 056 07	Screw M4
2 x 993 561 335 00 70A	Tensioning strap
1 x 993 561 835 00	Clamping plate



Drawing 1 (Concern 4)



Drawing 2 (Concern 5)
Right Side Driving Direction



Drawing 3 (Concern 5)
Left Side Driving Direction

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