

Technical Bulletin

Model
6 Cyl.

Group
6

Subject **Service Installation of Roof Mounted
Third Brake Light**

Part Identifier
6638

Number
9603

ATTENTION: Service Manager / Service Technician

Models Affected: **911 Carrera 2/4 Model Years 1989 to 1994**
911 Turbo Model Years 1991, 1992 and 1994
911 Carrera and Carrera 4 Model Year 1995

General Information: The roof mounted third brake light found on 1996 911 Carreras and
Turbos can be retrofitted to the above mentioned vehicles. This requires
installation of locating pins on the rear window, the addition of electrical
wiring (964 only), a changing of the rear wiper blade and wiper arm
(Type 964 only) and painting of the outer roof cover in the vehicle color.

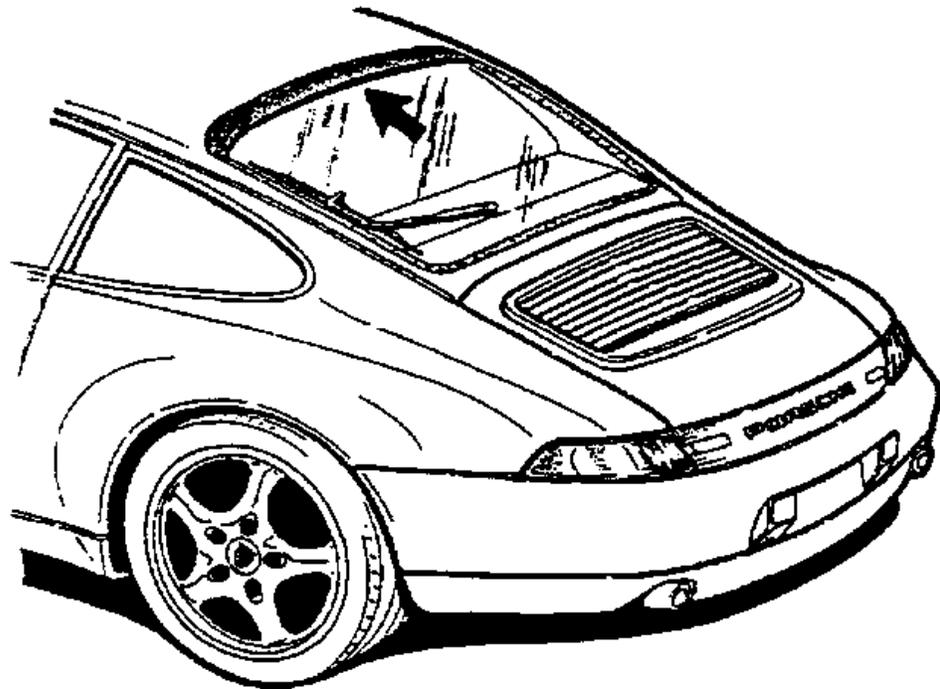
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Important:

When installing the roof mounted third brake light on 911 Carrera 2/4 model years 1989 to 1994 and 911 Turbo model years 1991, 1992 and 1994, the existing third brake light can remain installed and operational or be removed as the customer desires. However, if the inside mounted third brake light is removed, the black screening on the glass will be visible. This screening cannot be removed from the rear window. As an alternative, the rear window can be replaced with a version having no screening for the third brake light:

Rear window 964 545 107 04
Rear window w/ wiper 964 545 107 06

For 993 vehicles, the existing third brake light (mounted on the rear lid) can remain installed and operational or be removed as the customer desires. If the existing third brake light is removed, the mounting holes in the engine lid will require filling and the engine lid will need to be repainted.

Parts Required:

Vehicle Type 993:
Installation Kit, Part Number 000 044 800 12
plus the following additional parts:
Adhesive set (see page 4 for details)

Vehicle Type 964
Installation Kit, Part Number 000 044 800 12
plus the following additional parts:
1 Cable Harness 993 612 893 00
2 Connector 944 612 546 00
Adhesive set (see page 4 for details)

On Cars with rear wiper (964 only):
1 Wiper Arm 993 628 032 00
1 Wiper Blade 993 628 039 01
Adhesive set (see page 4 for details)

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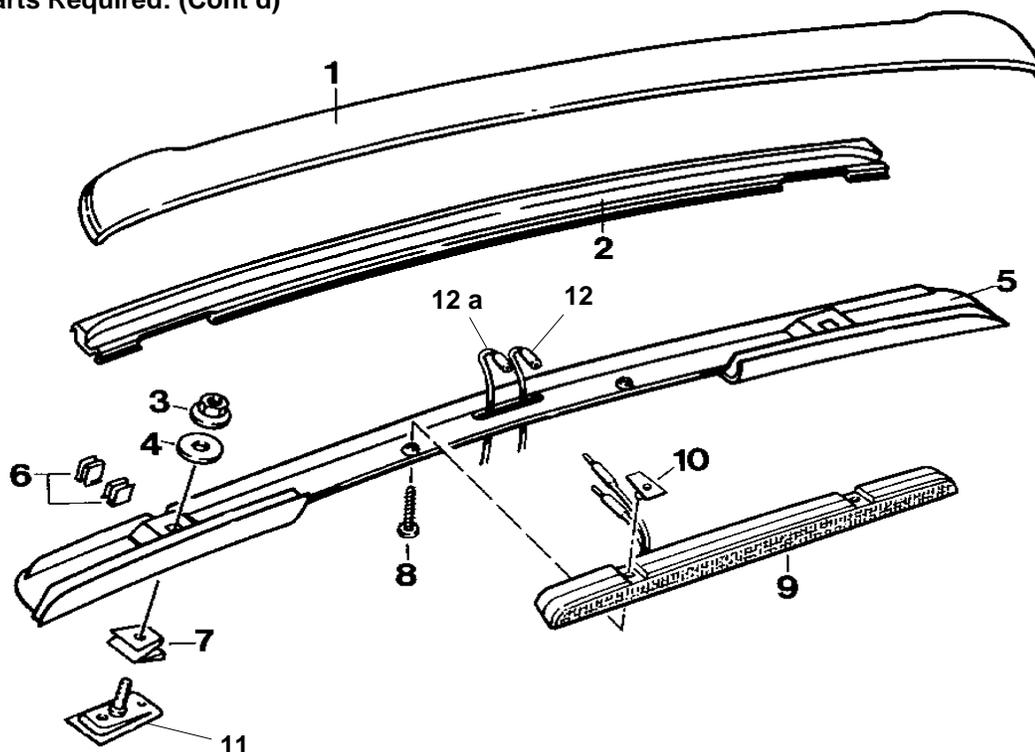
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Parts Required: (Cont'd)



The following parts are included in the Installation Kit Part Number - 000 044 800 12:

| Key # | Part Number | Description | Qty. |
|-------|--------------------|---------------------------|------|
| 1* | 993 504 445 02 G2X | Roof Cover | 1 |
| 2 | 993 504 659 01 | Rubber strip | 1 |
| 3 | 900 377 001 07 | Nut M6 | 2 |
| 4 | 900 151 037 07 | Washer A 6.4 | 2 |
| 5 | 993 504 455 02 70C | Mounting Frame | 1 |
| 6 | 999 507 477 00 | Mounting Clip | 13 |
| 7 | 993 504 715 00 | Adjusting Element | 2 |
| 8 | 999 919 117 09 | Screw 3.5 X 20 | 2 |
| 9 | 993 631 060 00 | Stop Light Assy. | 1 |
| 10 | 993 631 160 00 | Speed Nut | 2 |
| 11 | 993 504 361 00 | Locating Pin | 2 |
| 12 | 993 612 091 00 | Wire with Brown Connector | 1 |
| 12a | 993 612 091 01 | Wire with Black Connector | 1 |

* The roof cover comes in primer and must be painted in the vehicle color

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Adhesive Requirements:

Only the following adhesive should be used when installing the locating pins on the rear window:

000 043 203 42

Adhesive set including:
2 component adhesive (B1/B2), mixing nozzle (B3 - 000 043 203 50), primer (B4), activator (B5) and applicator (B6).

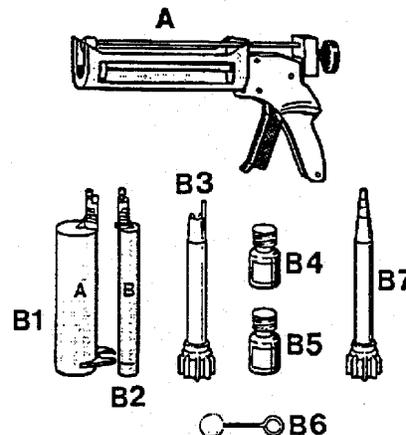
The following additional parts will be required:

000 043 203 49

Mixing nozzle (B7) for installation of locating pins.

000 721 958 60

Applicator gun (A- part of minimum tool requirement for Porsche dealers)



The above mentioned materials are **not** included in the installation kit for the roof mounted third brake light.

For additional information refer to the 911 Carrera (993) Workshop Manual volume 5, page 66 - 23.

The remaining adhesive can be used again at a later date by leaving the mixing nozzle (B7) on the cartridges. To use the adhesive again, a new mixing nozzle is required.

Work Procedure:

Installation of locating pins:

- 1 - Pull out the rubber trim at the top of the rear window (only 993). See circle # 1, page 10
- 2 - Locate the area to be primered on the rear window top left and right according to circles # 2, page 10. Mask around the area to be primered.



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Work Procedure: (Cont'd)

Dimension for circles # 2:

A= 120 mm
B= 100 mm
C= 25 (30) mm
D= 65 (70) mm

Dimensions given in () are for type 964

Thoroughly clean the areas where the locating pins will be placed. Before applying the primer, the area must be completely dry and free of the cleaning solution.

Apply glass primer to the top left and right areas thin and evenly. Drying time is approximately 5 minutes. Afterward, remove the masking tape.

3 - Positioning the Locating Pins (Key# 11, Page 3).

Mark the center of the rear window. To do this, measure on the lower edge of the upper windshield screen printing to the body opening and from this take the center. Mark the position of the locating pins according to circle # 3 and the dimensions given above and on page 10.

4 - Clean the locating pin base and remove the plastic foil. Position the large hole in the locating pin base to the outside of the locating pin center. Press the locating pins with approximately 50 newtons (11.2 Ftlbs) of pressure to their respective positions on the rear window.

5 - Prepare adhesive and adhesive gun (see circles 5, 6, 7, and 8 on page 10).

6 - With the adhesive cartridges snapped together, use a knife to cut the ends of the cartridges open (see circle 6, page 10).

7 - Install mixing nozzle 000 043 203 49 onto the assembled adhesive cartridges.

8 - Cut an 8 mm opening at the end of the mixing nozzle.

9 - Additionally secure the locating pins with adhesive. Apply adhesive through the large hole in the locating pin base until it emerges from the small hole.

Important: The adhesive will require at least 1 hour of curing time before assembly can continue. The complete curing time is 3 hours at 50° F.

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Work Procedure: (Cont'd)

10 - Pull out the 2 wires for the brake light found at the top of the rear window and reinstall the rubber cover strip (only 993).

Preparation for Wiring:

911 Carrera / 911 Carrera 4 (993) Figure 1

Solder the wires, part numbers 993 612 091 00 and 01 onto the existing wires at the top of the rear window. Insulate the solder joints to avoid short circuits. The wire length from the rubber strip should be approximately 200mm.

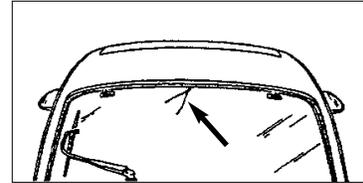


Figure 1

Preparation for Wiring:

911 Carrera 2/4 911 Turbo (964) Figure 2

The brake light wires must be extended from connector "T 36" (under the speaker shelf cover) up to the third brake light area.

- On cars with sunroof, remove the left cover for the sunroof motor.
- On cars without sunroof, remove the headliner at the rear window approximately 100 mm from the center to the right.
- Drill a 5 mm diameter hole below the roof edge approximately 65 mm from center **from the outside**. Remove all burrs and cover any exposed metal paint to prevent corrosion.

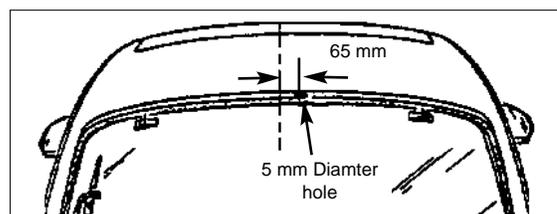


Figure 2



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Work Procedure: (Cont'd)

- On the wiring harness 993 612 893 00, cut off both male connector (Figure 3).

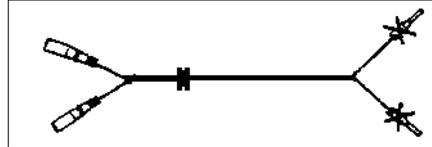


Figure 3

- From the outside push the harness through the 5 mm hole and secure the rubber grommet. The wires should extend to the outside approximately 250 mm.
- Remove the rear speaker shelf cover.

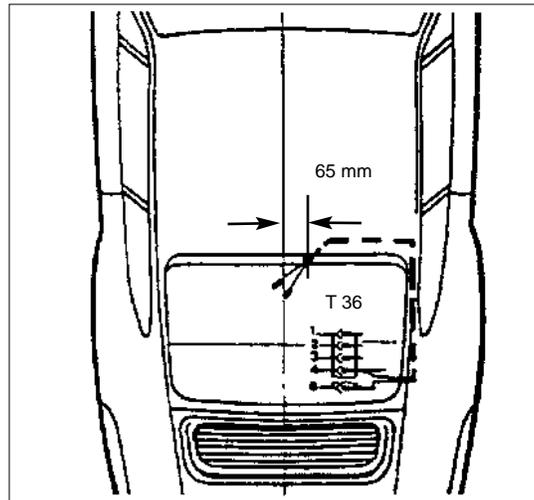


Figure 4

- Route the wiring harness under the headliner to connector "T 36" located under the speaker shelf cover (Figure 4).
- Separate connector "T 36". Remove the brown cable from the connector half that has open number 5 and 6 pins (Figure 5).

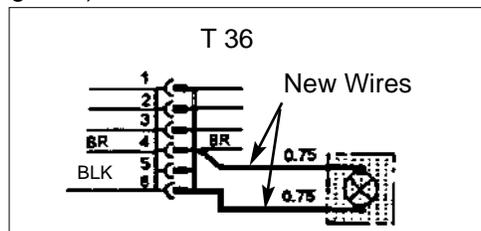


Figure 5

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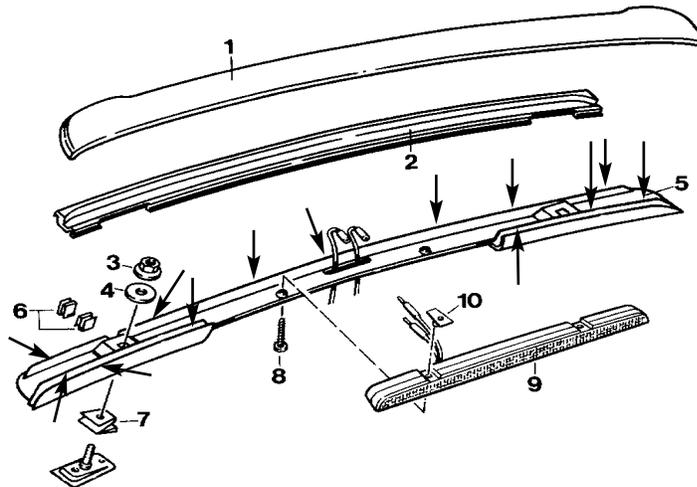
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Work Procedure: (Cont'd)

- Remove the brown wire connector from position 4. Cut off the connector, join the new harness brown wire to the existing brown wire and solder them into a new connector. Reinstall the connector into position 4 of plug connector "T 36".
- Solder a connector pin onto the black wire of the new harness and install the connector into position 6 of plug connector "T 36". Reconnect connector "T 36".

Important: Seal the area where the wiring harness comes through the roof to prevent water leaks.

Installation Procedure: 993 and 964



- Install the clips (Key# 10) into the brake light (Key# 9) and install the brake light onto the bracket (Key# 5) with screws (Key# 8).
- Place the adjusting elements (Key# 7) over the locating pins as shown.
- Install the U clips (Key# 6) at the positions as shown by the arrows above.
- Place the bracket (Key# 5) over the locating pins and connect the brake light wires. **Test the function of the third brake light.**
- Install the washers (Key# 4) and nuts (Key# 3) and tighten only slightly. This is the adjustment that determines the fit of the roof cover to the vehicle roof.
- Install the rubber strip (Key# 2) onto the bracket (Key# 5).
- Fully install the roof cover (Key# 1) onto the bracket (Key# 5). If necessary, remove the roof cover and adjust the position of the bracket for proper fit. When correctly installed, the roof cover should be flush with the vehicle roof.



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Installation Procedure: (Cont'd) - For vehicle type 993, check for proper clearance of the wiper blade in the area of the roof cover. If necessary, install a shorter wiper blade, Part Number 993 628 039 01.

- For vehicle type 964, replace the rear wiper arm, Part Number 993 628 032 00 and wiper blade, Part Number 993 628 039 01. Reinstall the headliner or sunroof motor cover.

Important:

To prevent excess illumination of the rear seat area from the roof mounted third brake light, it is recommended to install a strip of dark window tinting material (locally available) extending from the edge of the rubber trim 50 mm and across the top inside area of the rear window. This is recommended for both 964 and 993 vehicles. On 964 vehicles, this will also mask from view the third brake light frame assembly.

Labor information:

Installation of Third Brake Light: (Does not include installation of additional wires)
180 TU

Paint Roof cover:
90 TU

Installation of additional wiring: (Type 964 only)
Vehicle with Sunroof:
90 TU

Vehicle without Sunroof:
100 TU

Replace Rear Wiper Blade and Arm:
20 TU

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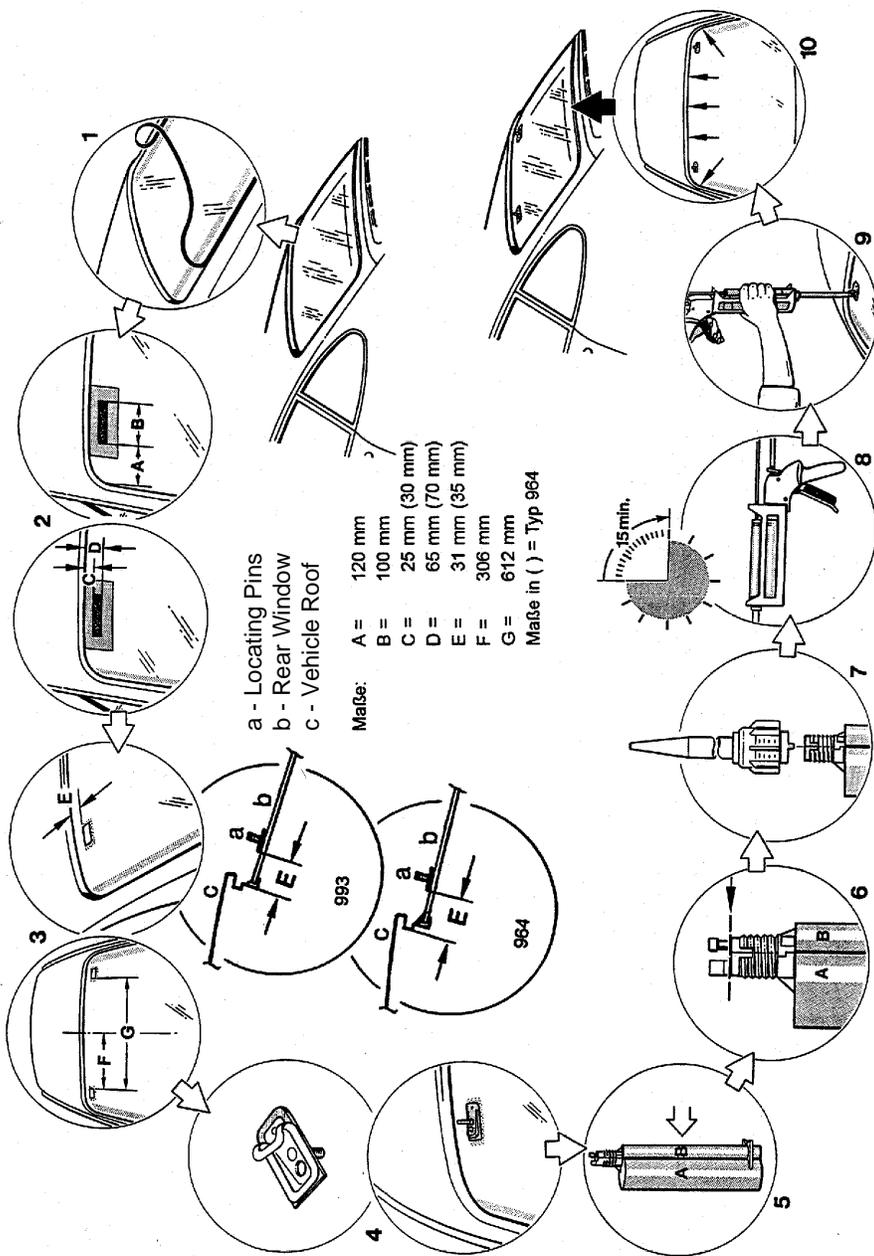
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