



Subject: Addressing Customer Complaints of Water Leaks

Application: 1995 900 Convertible

CATEGORY	
Body	
SECTION	PAGE
8	150
ISSUE	CODE
04/97-0755	812

Supersedes PSI 02/96-0665

BEFORE STARTING ANY OF THE MEASURES OUTLINED HERE, CHECK THAT THE TOP, DOORS AND SIDE WINDOWS ARE CORRECTLY ADJUSTED. START AT THE WINDSHIELD AND WORK YOUR WAY REARWARD. SEE SERVICE MANUAL 8:5 CABRIOLET, PAGE 121.

Should a customer complain of water leaks on their 1995 900 Convertible, follow the steps below to rectify this complaint. Always try to get the customer to describe the leakage in as much detail as possible, such as under what conditions leakage will occur. For example: car is parked flat in driveway during rain storm, water leaks into side windows.

The steps that follow have been introduced into production.

Each course of action includes several numbered points for checking and rectification. Check these points one by one in the order they occur by spraying water diagonally from above to see whether any water leakage occurs. If there is no leakage, proceed to the next step.

Never use water under high pressure.

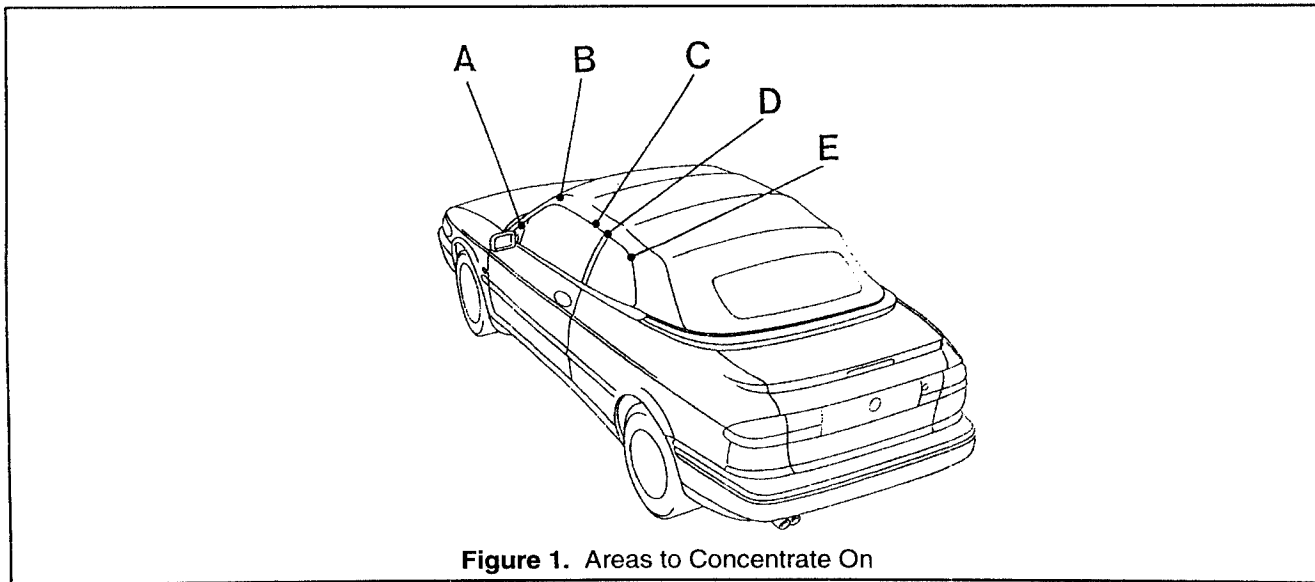


Figure 1. Areas to Concentrate On

Saab Cars USA, Inc. Service bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have the condition. See your authorized Saab Dealer for information on whether your vehicle may benefit from the information.

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Areas of Potential Leaks:

- A. Leakage from the Door Mirror Mounting Flange
- B. Leakage at the joint between the Header Seal and the Front Side Rail Seal
- C. Leakage at the joint between the Front and Center Side Rail Seals
- D. Leakage where the Upper Edge of the Rear Window Seal meets the Center Side Rail Seal
- E. Leakage between the Rear Edge of the Center Side Rail Seal and the Rear Side Seal

Parts:

An initial order of parts was sent to your dealership with the parts order for Customer Satisfaction Campaign 428: Top Mechanism Quality Improvement.

These parts include:

Sikaflex glue (310ml)	30 07 127*
Foam rubber seal (1 per car)	45 58 086
Nut (8 per car)	79 77 911
Bolt (8 per car)	69 59 464

*Enough to do about 10 cars. Make certain glue is sealed carefully after each use to prevent drying. Apply using a standard caulking gun.

Additional quantities of these items should be order using standard ordering procedures.

Source required butyl tape locally.

A. LEAKAGE FROM THE DOOR MIRROR MOUNTING FLANGE SEAL

Action:

See PSI 04/97-0760.

B. LEAKAGE AT JOINT BETWEEN HEADER SEAL & FRONT SIDE SEAL
C. LEAKAGE AT THE JOINT BETWEEN THE FRONT AND CENTER SIDE RAIL SEALS

NOTE THAT THE PROCEDURES IN THIS SERVICE INFORMATION BULLETIN ONLY APPLY TO 1995 CONVERTIBLE MODELS WHICH HAVE THE ORIGINAL SEALS INSTALLED AND A CUSTOMER COMPLAINT OF WATER LEAKS.

Parts:

Header seal	47 67 729
Front side seal, LH	46 95 995
Front side seal, RH	46 96 001
Rear side seal, LH	46 96 019
Rear side seal, RH	46 96 027
Left front seal retainer	47 67 950
Right front seal retainer	47 67 968
Left center seal retainer	47 67 976
Right center seal retainer	47 67 984
Nut (8 per car)	79 77 911
Bolt (8 per car)	47 67 406
Foam rubber seal (1 per car)	45 58 086
Sikaflex glue (310ml)	30 07 127*

*Enough to do about 10 cars. Make certain glue is sealed carefully after each use to prevent drying. Apply using a standard caulking gun.

Action:

Install a new header seal and the later style side rail seals and retainers as follows:

FRONT SIDE RAIL SEALS & RETAINERS

1. Operate the top to the halfway open position.
2. Remove screw A from both front seals.
3. Remove the rubber strip from the holder.
4. Remove screw B and the dome nuts from the retainers.
5. Discard all side rail seals, retainers, and clips "D".
6. Fit the rubber strip loosely on the holder and mark the holes. Note that there is a small rubber "ridge" molded into the end of each rubber seal approximately 1 to 2mm from the end of the seal. Line this up with the end of the metal retainer. Make a mark 1/8" (3mm) from the inner edge of the elongated holes so the seal can subsequently be adjusted outward if necessary. See Figure 2, point E.
7. Drill or punch 5/32" (4mm) holes in the rubber strip where marked so they align with the center of the rubber strip. See Figure 2, point F.

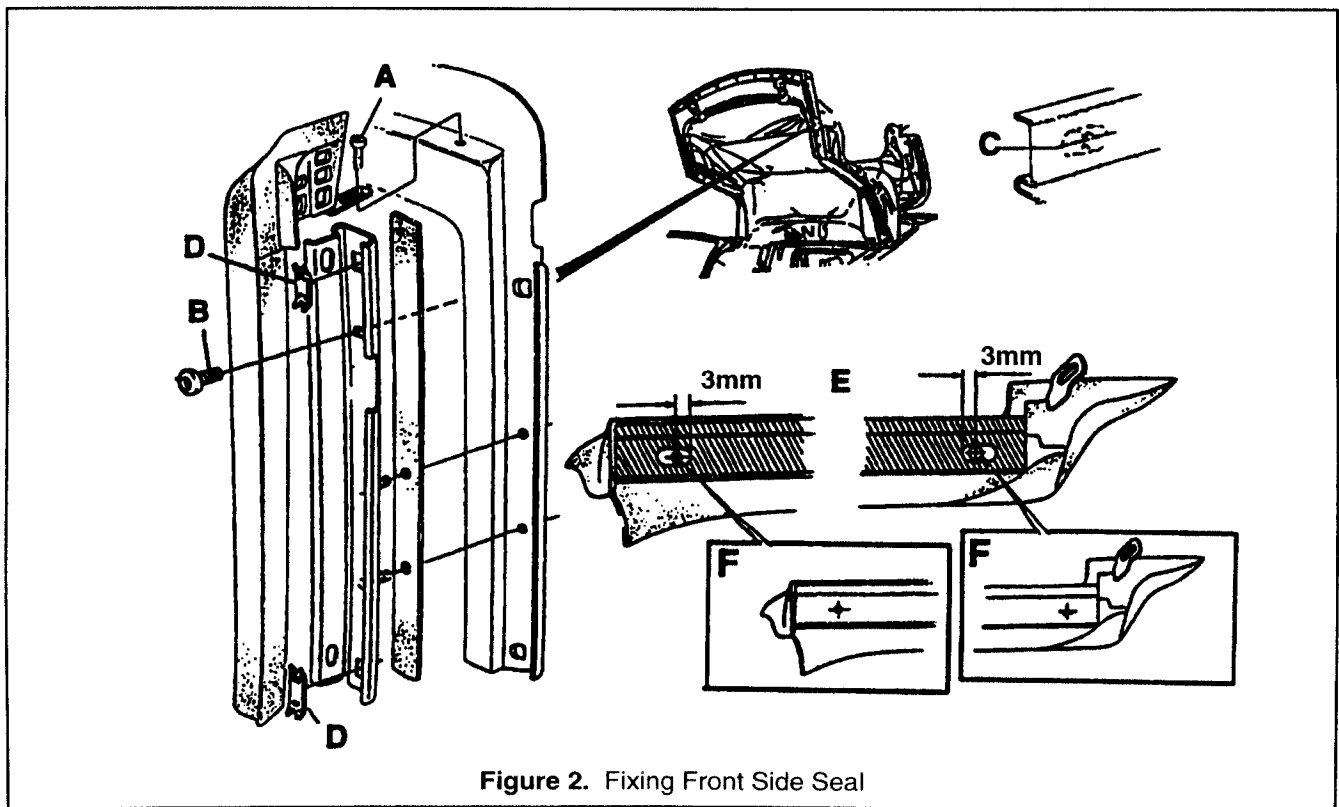
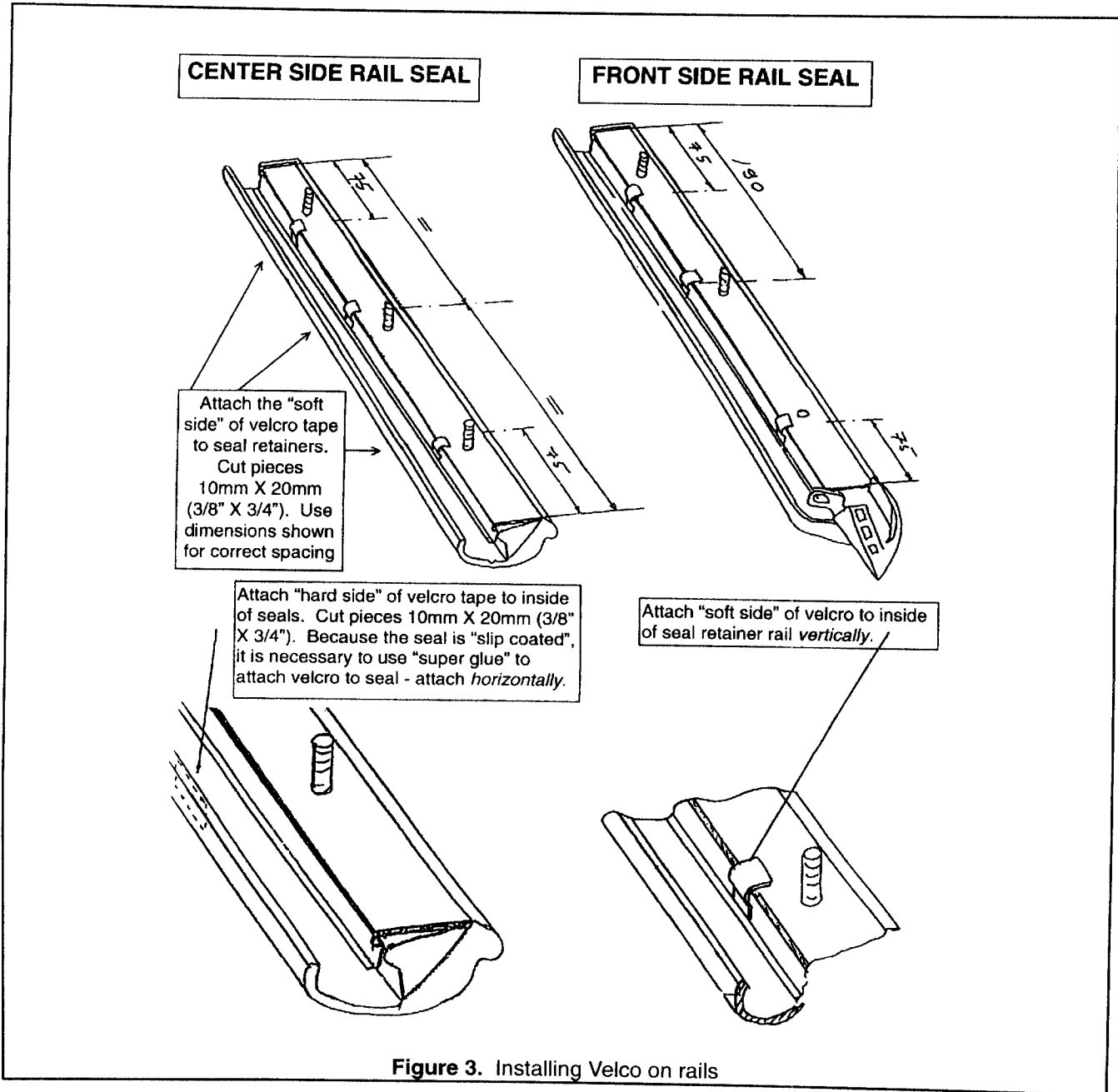


Figure 2. Fixing Front Side Seal

FRONT SIDE RAIL SEALS & RETAINERS continued

- Fit the seal and holder together. Tighten the seal in the elongated holes in the holder as shown in Figure 4 on the next page. Note that the rear edge of the seal should be preadjusted to protrude approximately 4mm from the edge of the retainer. This is only a preliminary adjustment.
- Install Velco as per Figure 3 below.



9. Install the seal assemblies to the top side rails with the seals adjusted fully outward in the slotted holes in the side rails, as a preliminary adjustment.

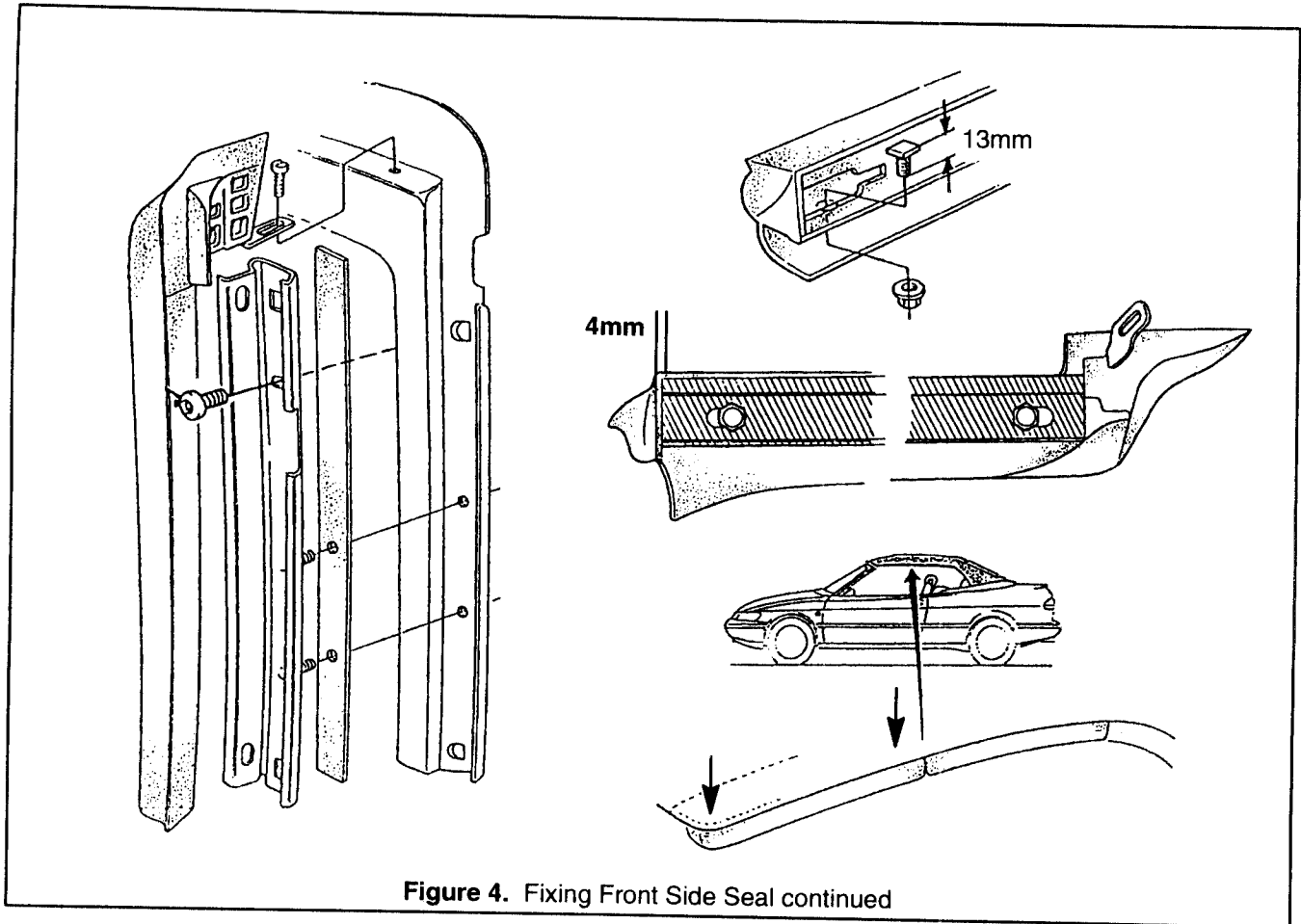
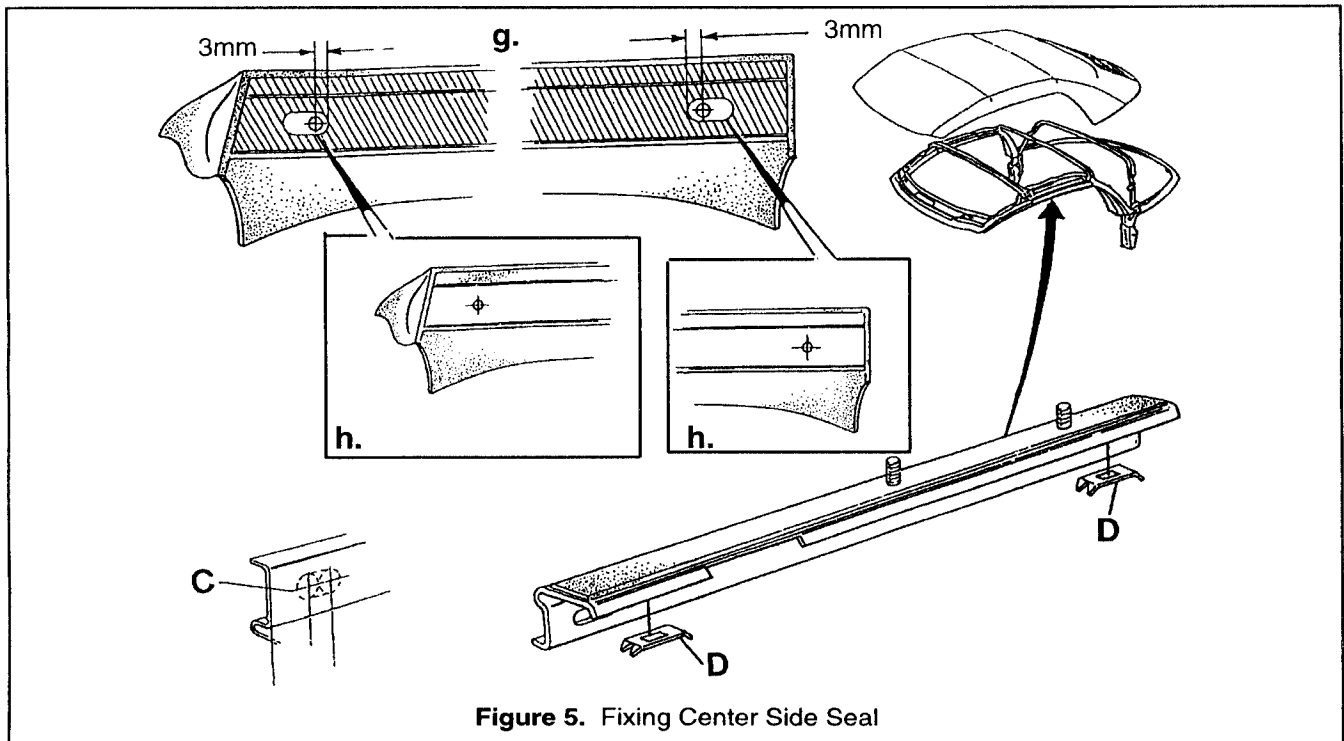


Figure 4. Fixing Front Side Seal continued

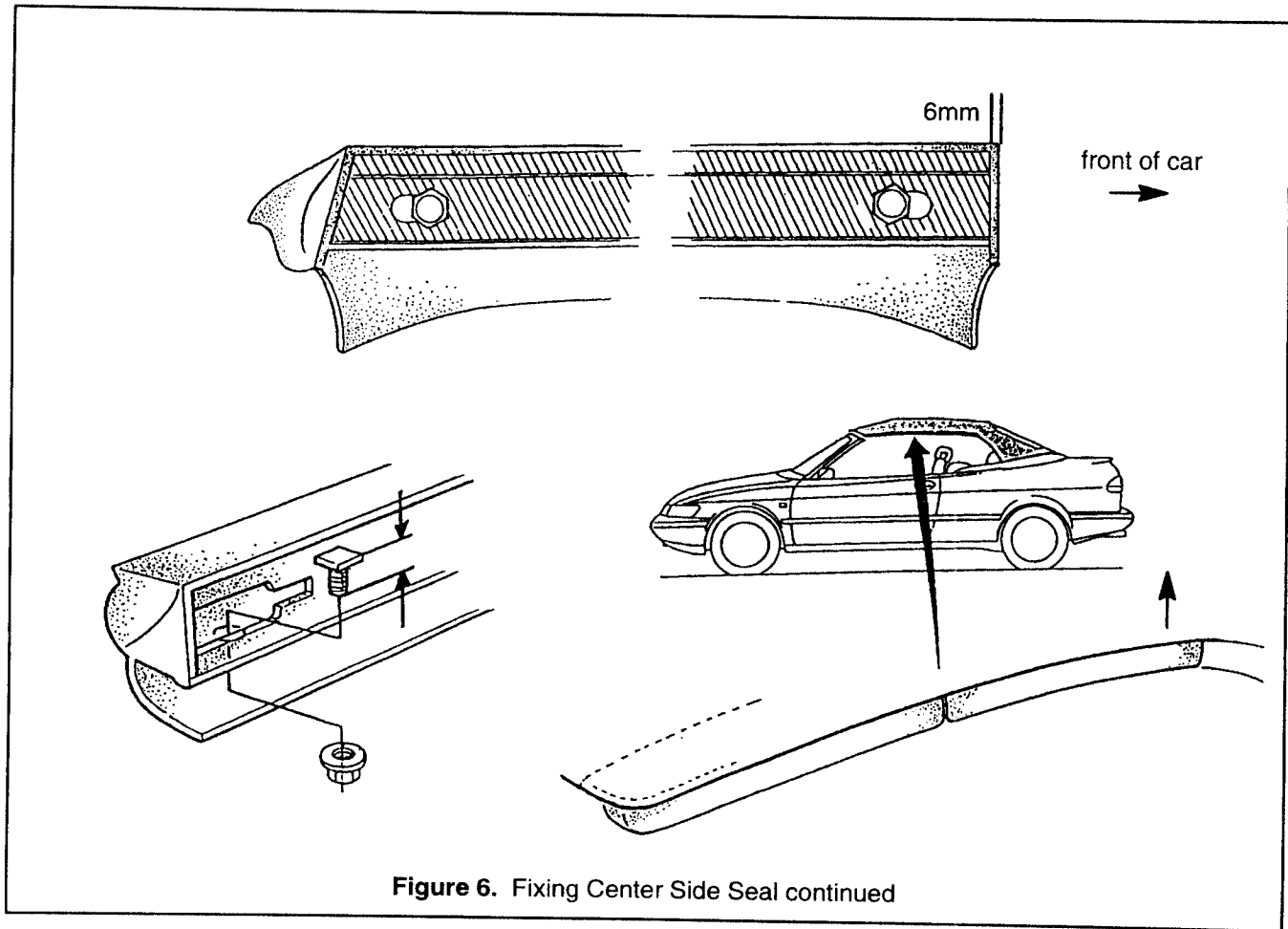
CENTER SIDE RAIL SEALS & RETAINERS

1. Leave the top in the halfway open position.
2. Remove the dome nuts from the retainer.
3. Discard all side rail seals, retainers and clips "D".
4. Fit the rubber strip loosely on the holder and mark the holes. Note that there is a small rubber "ridge" molded into the end of each rubber seal approximately 1 to 2mm from the end of the seal. Line this up with the end of the metal retainer. Make a mark 1/8" (3mm) from the inner edge of the elongated holes so the seal can subsequently be adjusted outward if necessary. See Figure 5, point G.
5. Drill or punch 5/32" (4mm) holes in the rubber strip where marked so they align with the center of the rubber strip. See Figure 5, point H.



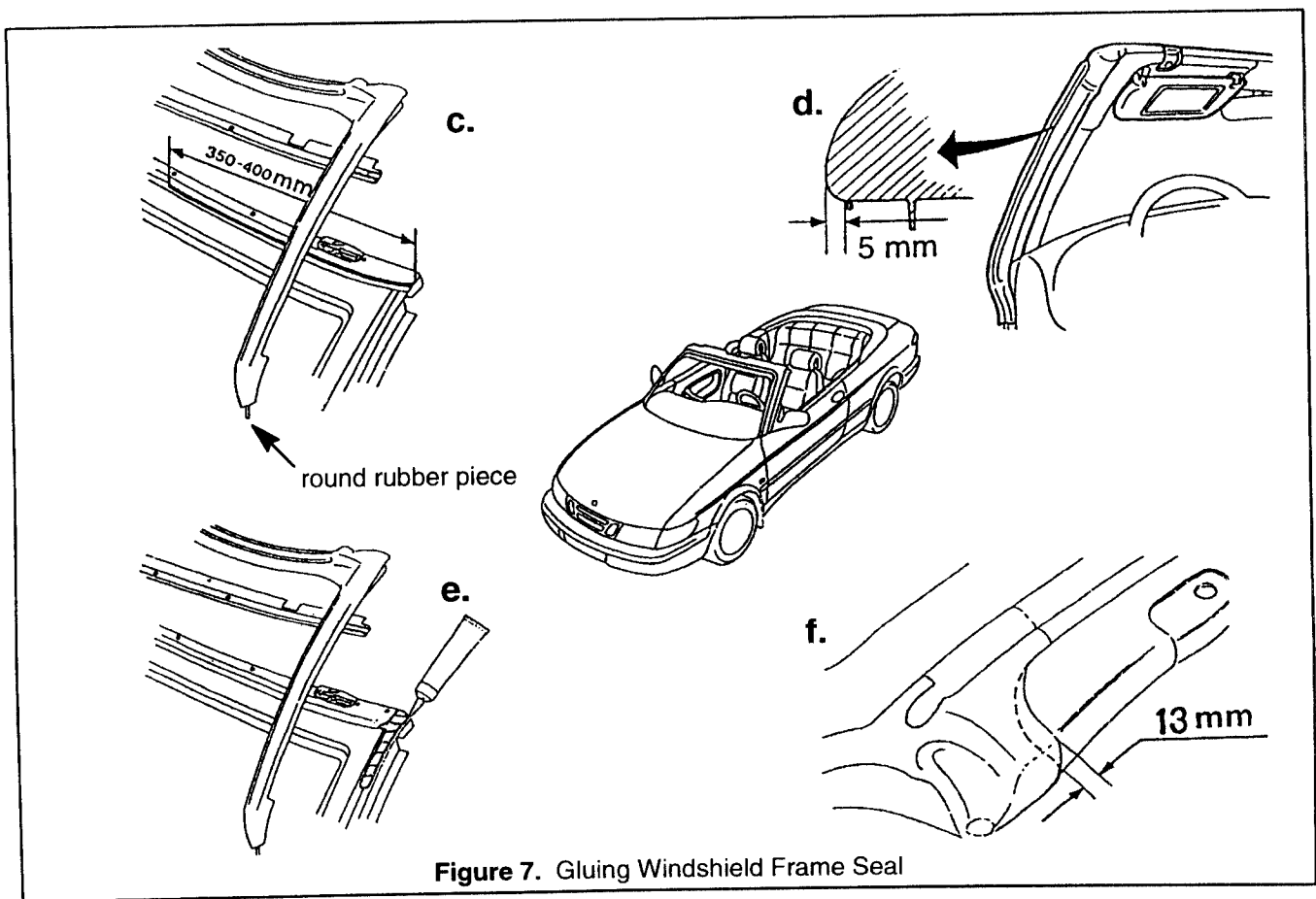
CENTER SIDE RAIL SEALS & RETAINERS continued

6. Fit the seal and holder together. Tighten the seal in the elongated holes in the holder as shown in Figure 6. Note that the front edge of the seal should be preadjusted to protrude approximately 6mm from the edge of the retainer. This is only a preliminary adjustment. Add Velco strip per Figure 3, page 4.
7. Install the seal assemblies to the top side rails with the seals adjusted as follows: the forward edge should be adjusted fully outward in the slotted holes in the side rails. The rear edge should be adjusted toward the inner edge of the slotted holes in the side rails, as a preliminary adjustment.



HEADER SEAL

1. Remove the old header seal and remove any old butyl tape. See Figure 7, point C. Be careful when removing header seal. Do not damage the lower seal where the round rubber piece is attached to the lower seal.
2. Clean the surface where the glue is to be applied.
3. Affix new butyl tape in the depression in the front of the seal holder, about 14 to 16" (350 to 400mm) long, extending from the corners. See Figure 7, point c.
4. If the new header seal does not have the tape pre-applied, affix butyl tape to the windshield frame from the corners down along the A-pillar. See Figure 7, point d.
5. Apply a bead of Sikaflex glue at each corner, as shown in Figure 7, point e.
6. Fit the seal, making sure it is about 1/2" (13mm) over the metal cover on each side. See Figure 7, point f.
7. Secure the seal to the header. Start at the outside corner and work toward the middle.
8. Secure the seal to the A-pillar with a rubber mallet.



HEADER SEAL continued

9. The bottom edge of this seal joins with the lower door opening seal with one short round rubber piece in the outer hole. A small amount of butyl tape should also be applied at this joint.
10. Raise the top fully and check the fit between the header seal and the front side rail seal as follows:
 - loosen the front screw and push the side seal out. See Figure 8.
 - Adjust the corner of the header seal and the front of the side rail seal so that the front seal protrudes about 2mm beyond the header's upper seal when the top is resting on the header.
 - Adjust the joint between the header seal and the front of the side rail seal by loosening screw A and moving the seal inward and outward. You can also loosen the 8mm nut inside the retainer to adjust the seal backward and forward. When the top is latched to the header there should be no gap between the header seal and the front of the side rail seal. When the top is latched to the header, a slight swelling of about 2 to 3mm should be observable in the front side rail seal. Slight adjustment of header seal may be necessary.

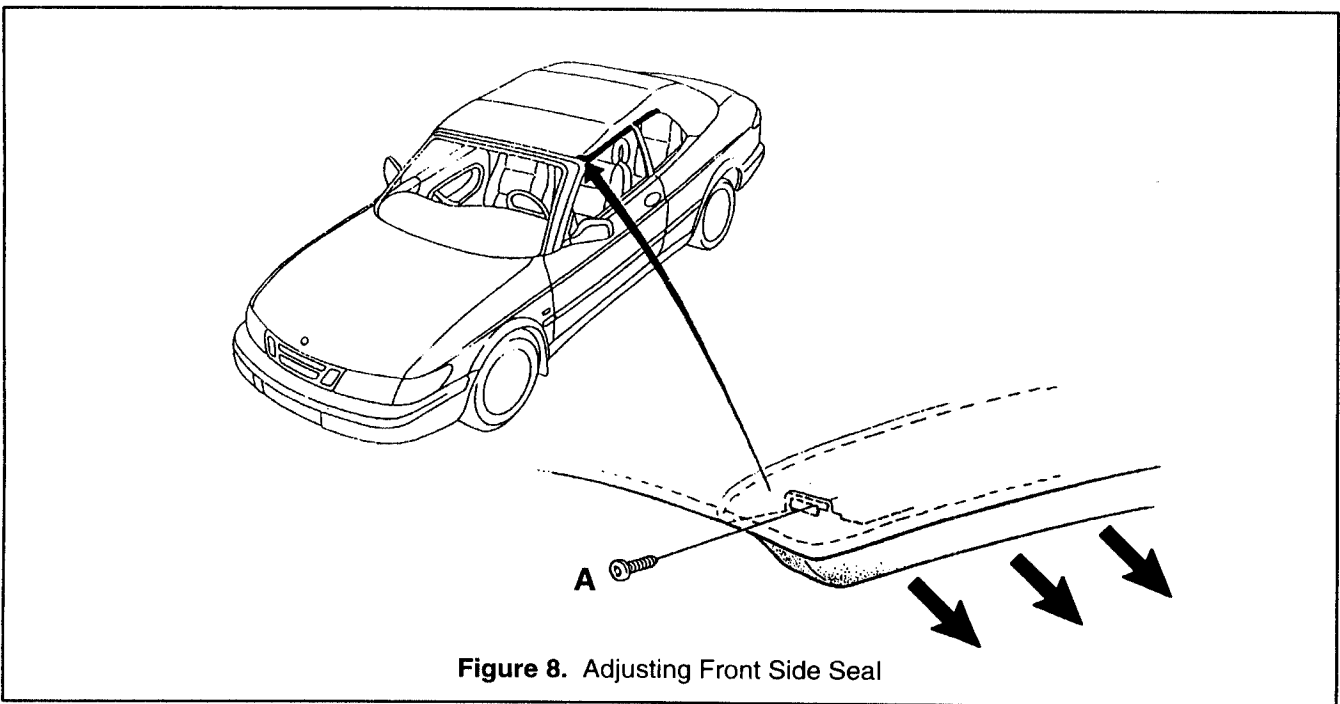
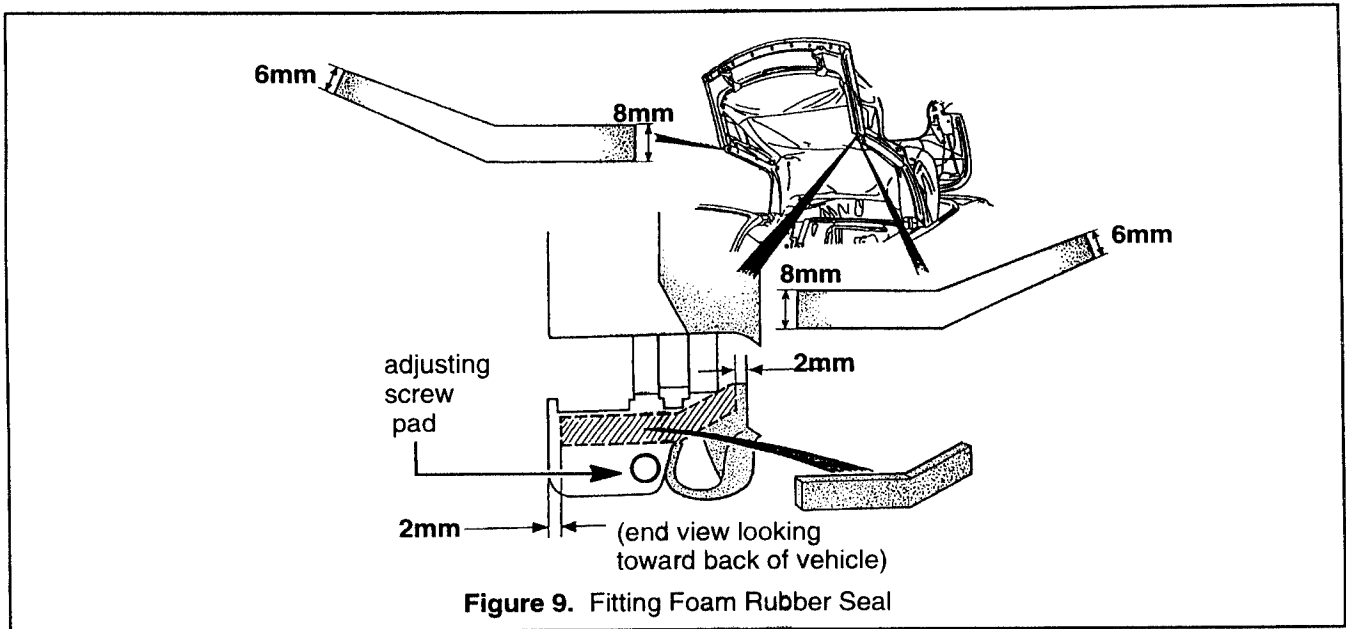


Figure 8. Adjusting Front Side Seal

FOAM SEAL BETWEEN FRONT SIDE RAIL AND CENTER SIDE RAIL

If water leaks in between front and center side rails from above the seal, fit a foam rubber seal between the front and center side rails as follows:

Cut the foam rubber seal to the shape as shown in Figure 9. Make sure that the foam rubber seal does not cover the adjusting screw pad.



- D. LEAKAGE WHERE THE UPPER EDGE OF THE REAR WINDOW SEAL MEETS THE CENTER SIDE RAIL SEAL**
- E. LEAKAGE BETWEEN THE REAR EDGE OF THE CENTER SIDE RAIL SEAL AND THE REAR SIDE RAIL**

Action:

1. Adjust the rear quarter window. See Service Manual 8:5, page 136. It should be 1–2mm below the top of the front side window.
The clearance between the front side window and the leading edge of the rear quarter window should be 5/16" (8mm) from top to bottom. See Figure 10.
2. Adjust the front seal and center side seals outward. See page 137 in Service Manual 8:5.

Important

Do not move the seals out so far that the front side window is pressed outward. The front side window must be in contact with the seal on the rear quarter window.

3. With top down, run all 4 windows up at the same time, using one-touch switch to check that all windows fit correctly.

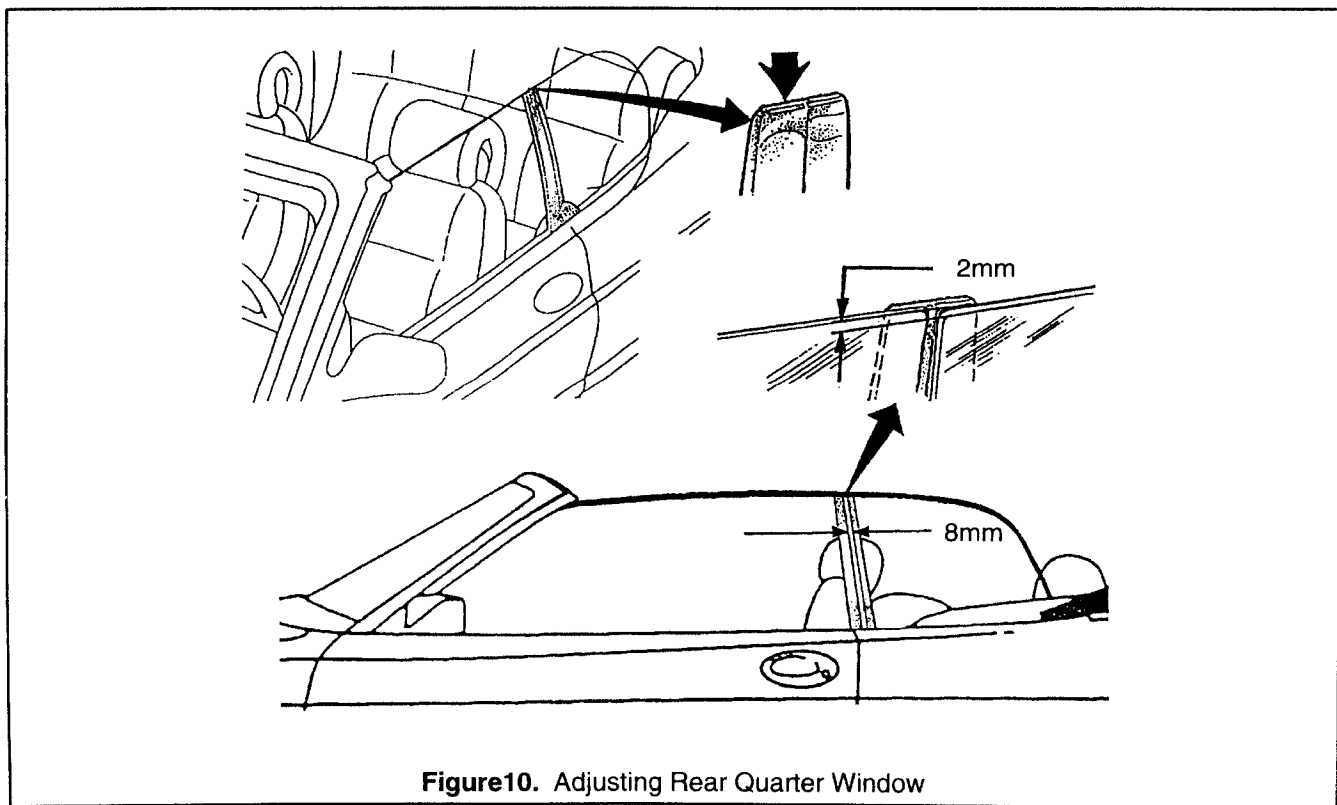


Figure10. Adjusting Rear Quarter Window

PSI 04/97 – 0755

To resolve a customer complaint for a vehicle in warranty, submit a claim using the following information:

Action B & C:

Failed part: 84471
Reason: 56
Location: 5
Coverage Type: 01
Type of Repair: 01

Labor Operation: 84470 3.5 hrs.
Labor Operation: 12801 0.5 hrs. (Water Test)

Actions D & E:

Failed part: 84471
Reason: 56
Location: 5
Coverage Type: 01
Type of Repair: 05

Labor Operation: 83524 0.8 hrs.
Labor Operation: 83525 0.8 hrs.
Labor Operation: 12801 0.5 hrs. (Water Test)

The following must be added to your operation number table:

Operation Number: 83524
Description: Adjust CV windows, lft.
Trans. Type: B
Engine Type: 9
Diagnostic Code: 0
M94– 900 Only
Begin Yr.: 95
End Yr: 98
.8 hrs.

Operation Number: 83525
Description: Adjust CV windows, rt.
Trans. Type: B
Engine Type: 9
Diagnostic Code: 0
M94– 900 Only
Begin Yr: 95
End Yr: 98
.8 hrs.