



Panorama Roof Troubleshooting Guide v.2.0 May 2006

SUBJECT: Model 203.740/747/764, As of Model Year 2002
Panorama Roof Troubleshooting Guide with Diagnostic Trees (CL203 with and without Solar Panel)

DATE: May 2006

This publication is for analyzing and troubleshooting panorama roof noise and other reports of abnormal operation occurrences. The diagnostic trees on the following pages must be followed before attempting any repairs or replacements of panorama roof components.

i **NOTE:** Use caution when working on the panorama roof to avoid scratching glass panels, vehicle paint or trim moldings.

I Noises While Driving – independent of roof / sun shade (roller blind) position. Diagnostic trees [1](#), [2](#) and [3](#).

II Noises While Driving – with roof closed and sun shade (roller blind) rolled up position. [Diagnostic trees 4 and 5](#).

III Noises While Driving - roof panel in the tilt position. [Diagnostic tree 6](#).

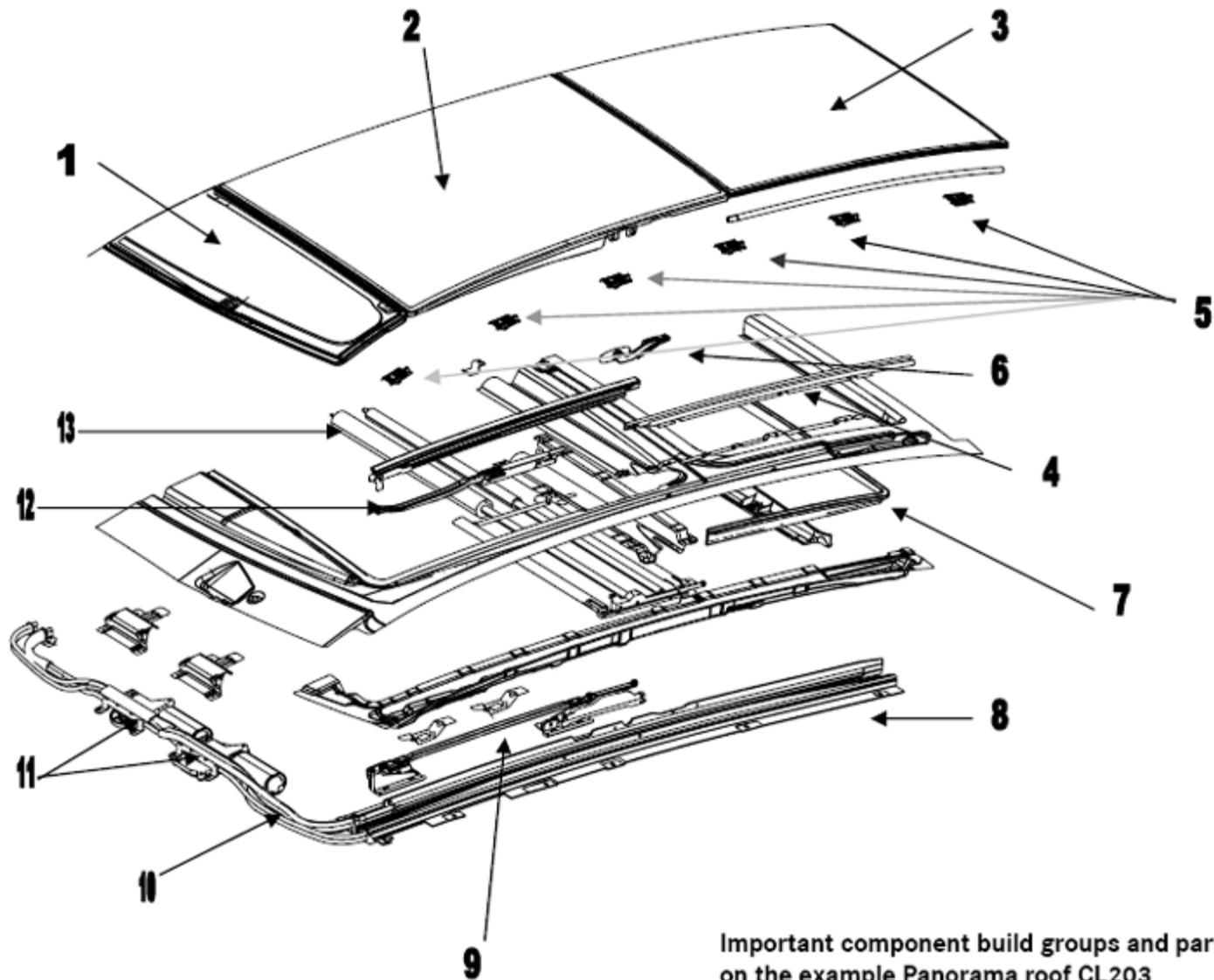
IV Noises when Vehicle is Stationary – while operating the roof. [Diagnostic tree 7](#).

V Noises when Vehicle is Stationary - roof panel in the open position. [Diagnostic tree 8](#).

VI Operational Malfunctions – sun shade (roller blind) and roof panel inoperative. [Diagnostic tree 9](#).

VII Leakage – in the area of the sun visor/control unit. [Diagnostic tree 10](#).

VIII Noises During Vehicle Operation and/or when Roof is Closed. [Diagnostic tree 7 \(update\)](#) and [Diagnostic tree 11](#).



**Important component build groups and parts
on the example Panorama roof CL203**

Figure 1 Exploded View of Panorama Roof

- 1: Wind deflector lamella
- 2: Glass panel
- 3: Fixed glass panel

- 7: Trim molding
- 8: Guide rail, inner
- 9: Panel mechanism
- 10: Guide tube

4: Guide rail, outer
5: Roof trim clips
6: Outer support

11: Motor
12: Wind deflector mechanism
13: Roller blind front / rear

I Noises While Driving -- Independent of roof / sun shade (roller blind) position.

Reference illustrations.

Panorama roof - Diagnostic Tree 1

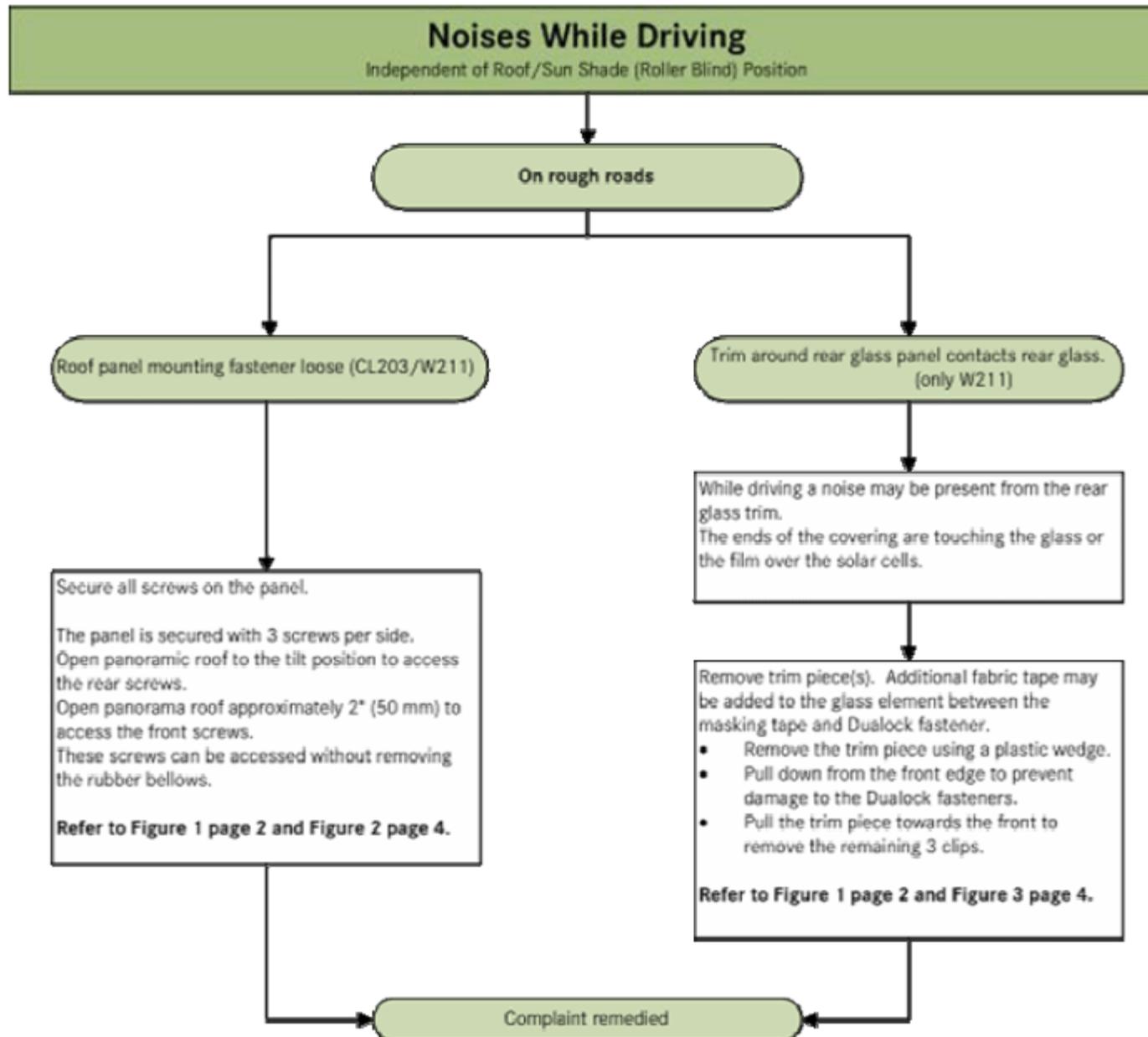




Figure 2 – Roof panel screws

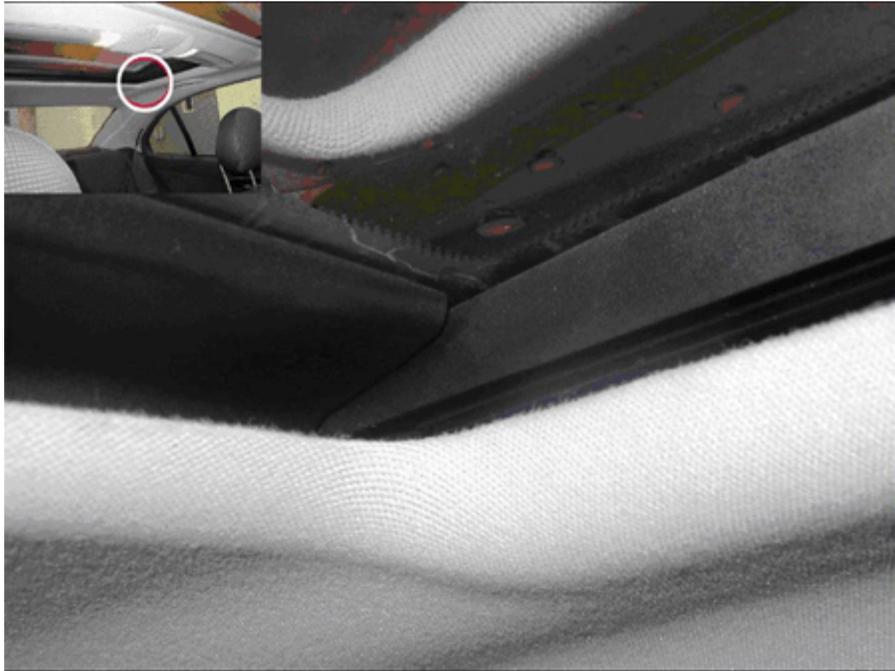
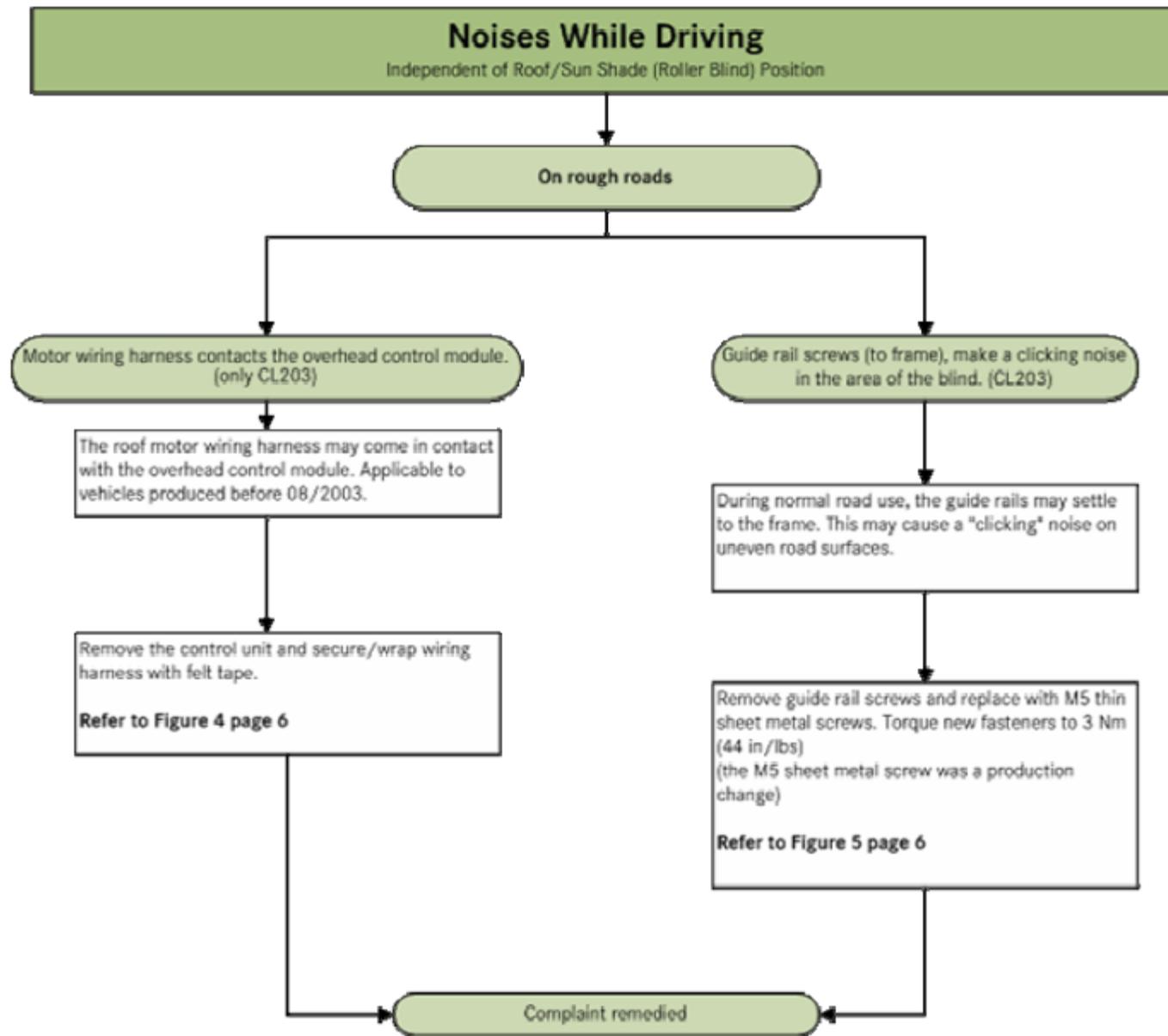


Figure 3 – Trim around rear glass panel

Panorama roof - Diagnostic Tree 2



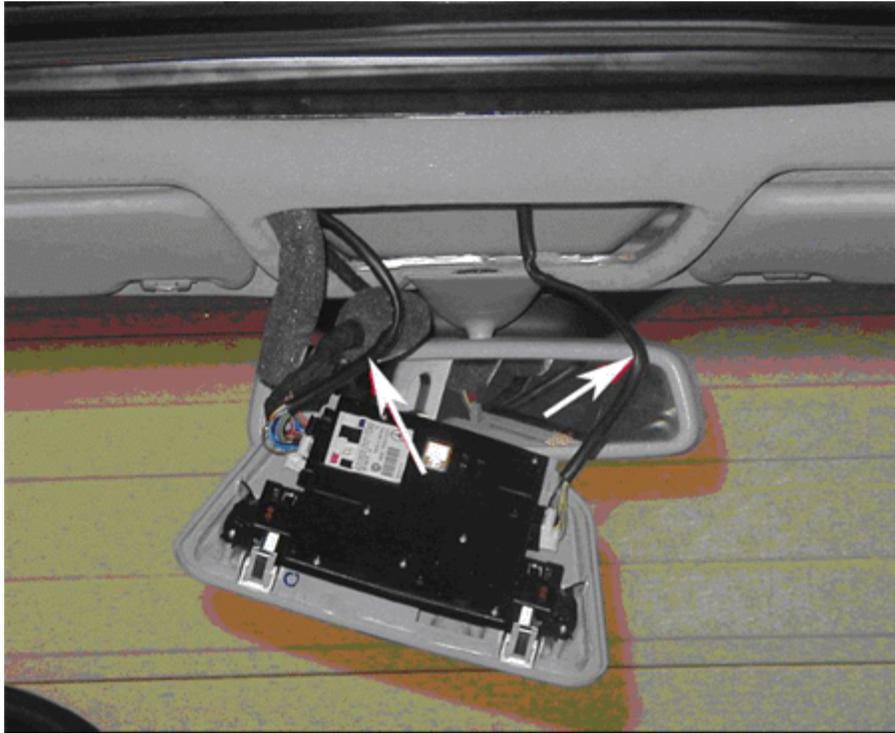


Figure 4 -- Overhead control module and wiring harness

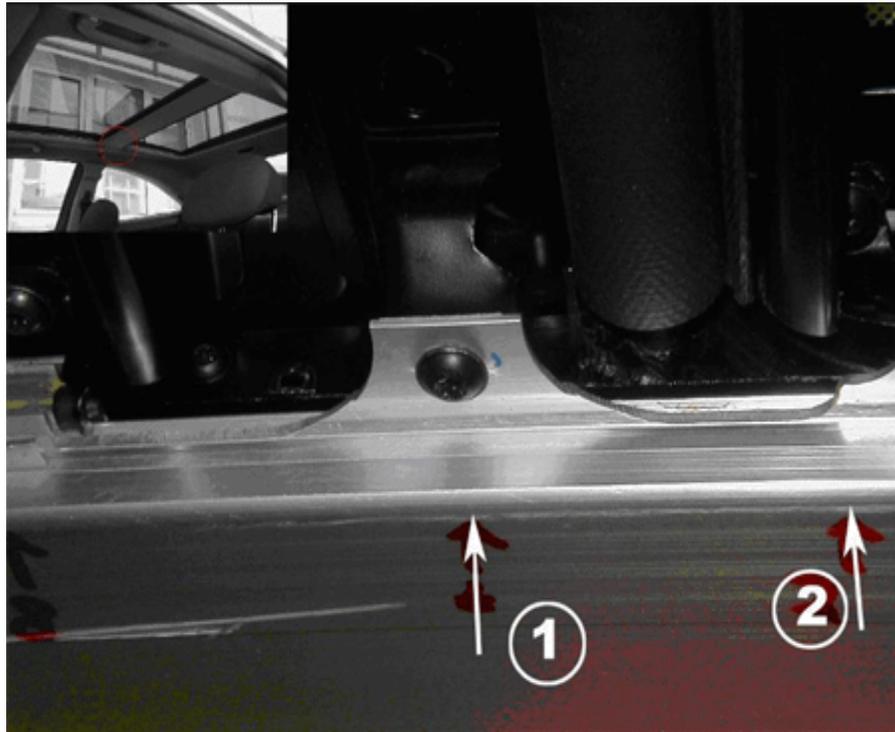
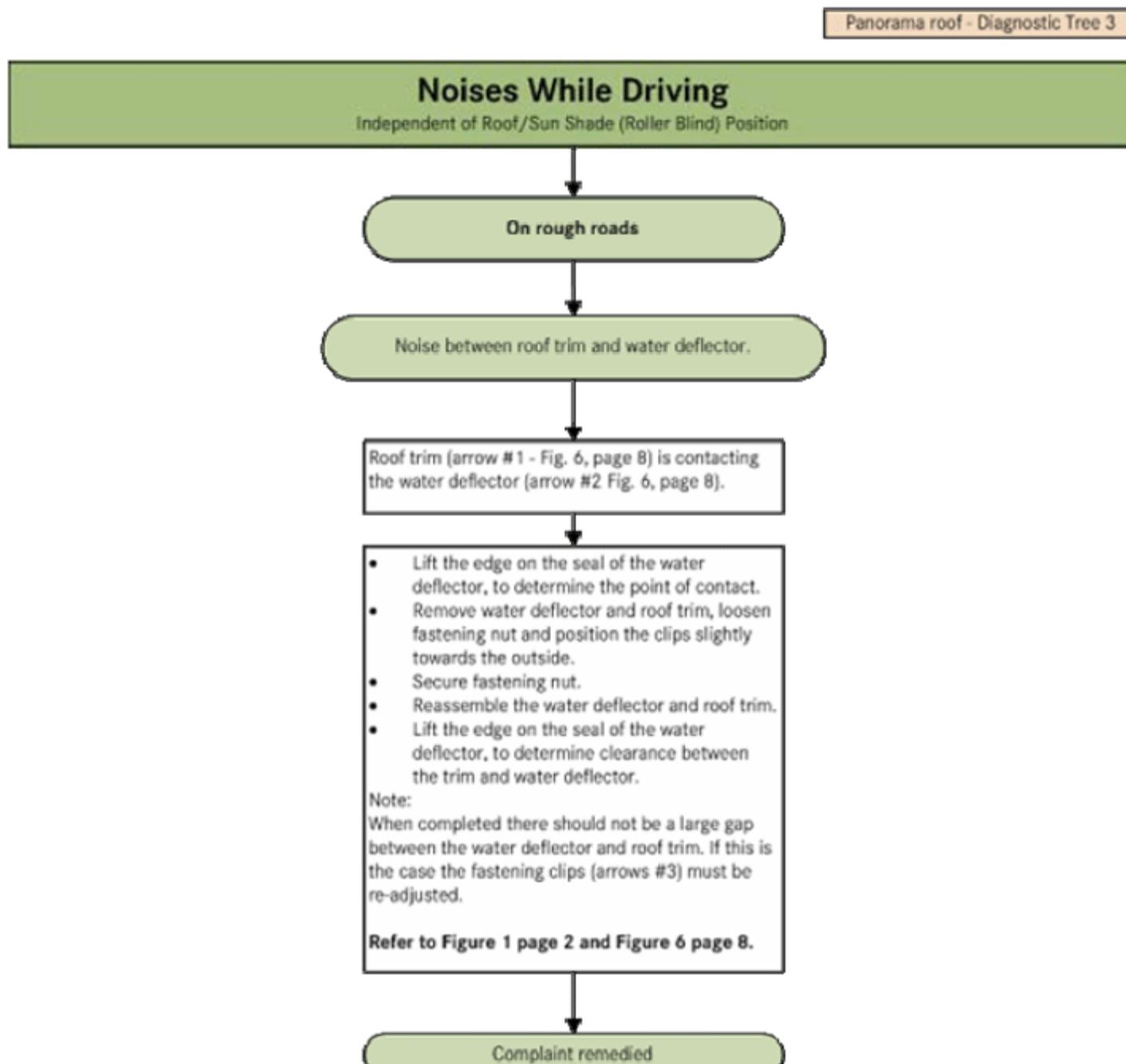


Figure 5 -- M5 Guide rail screws



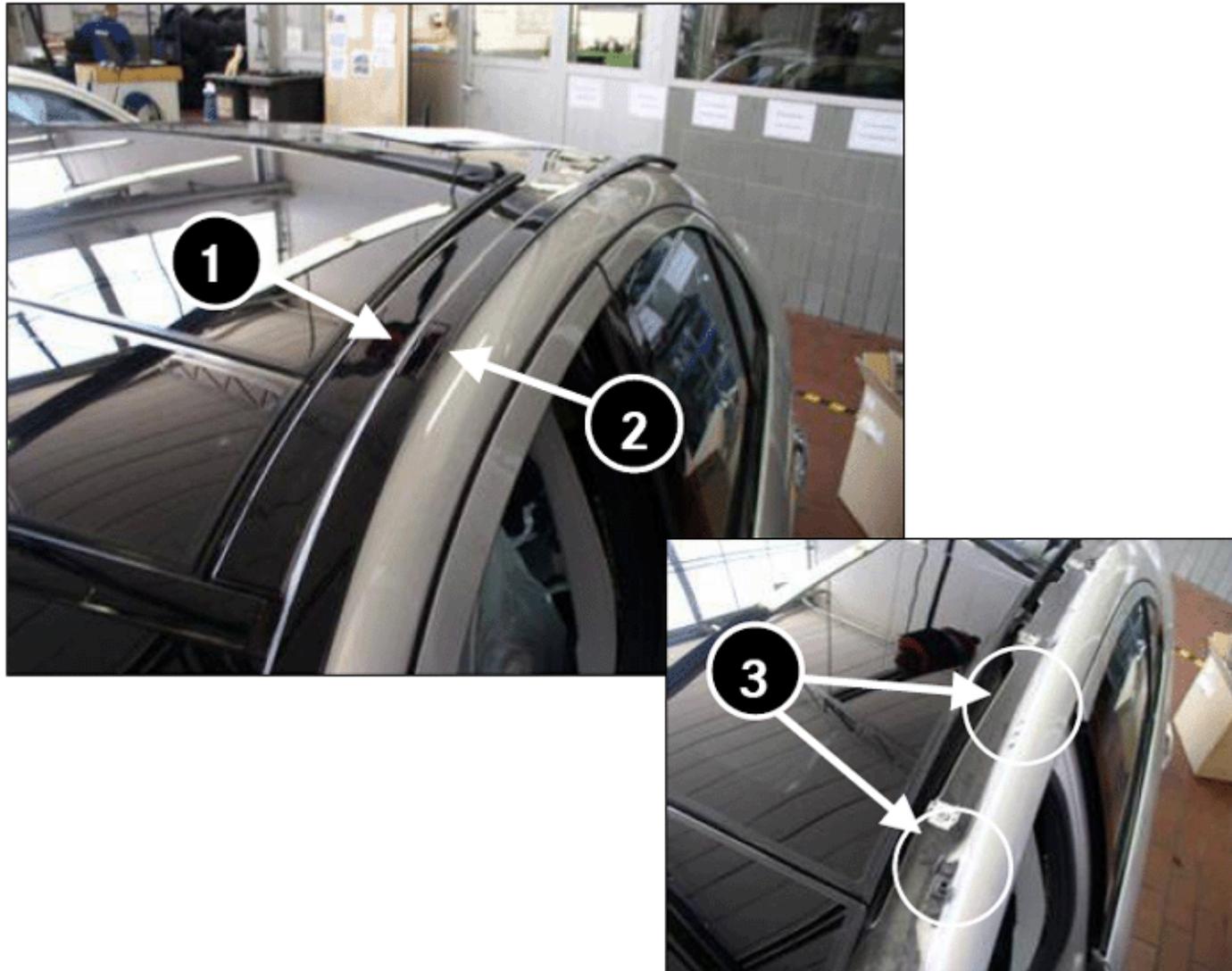
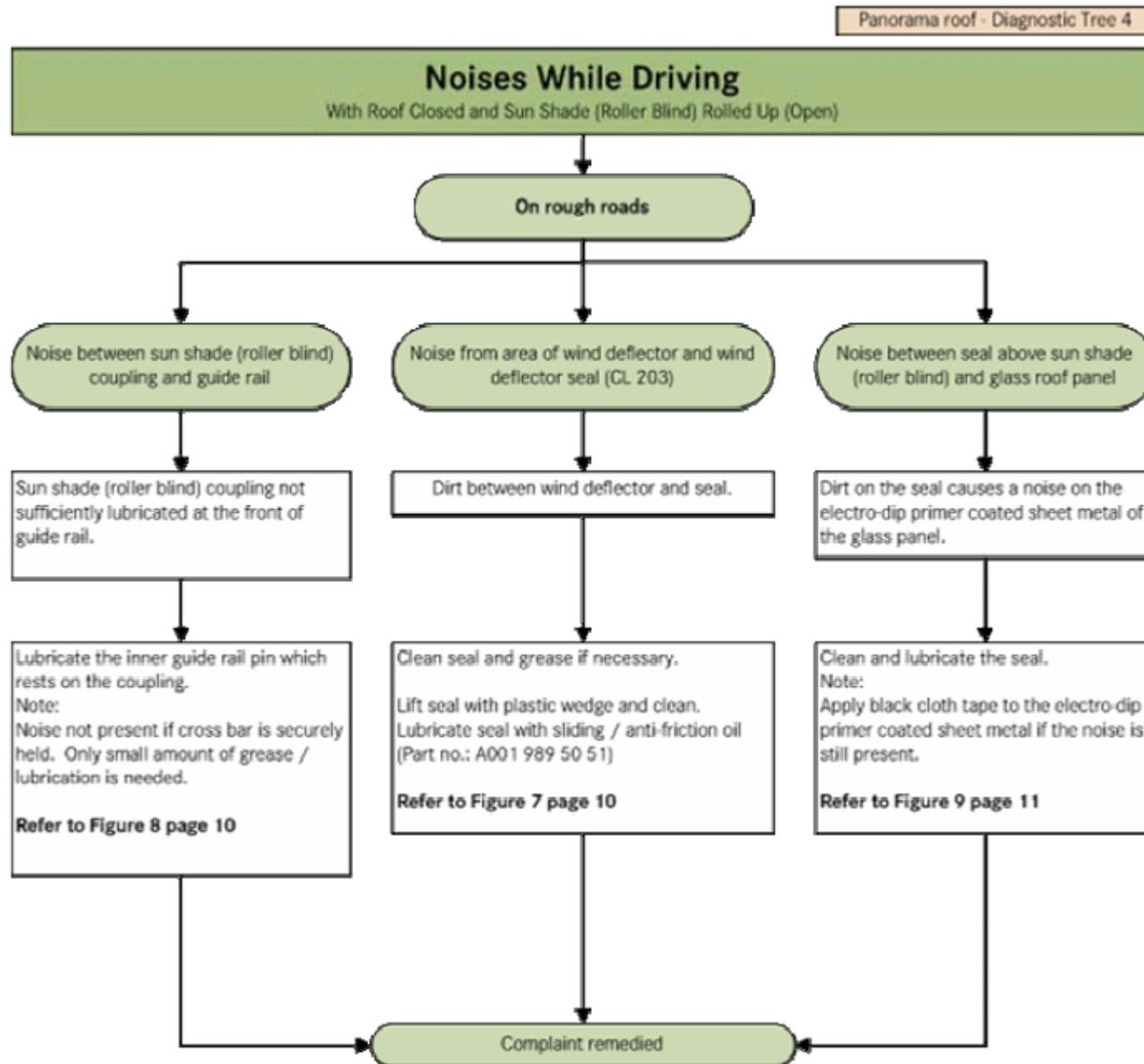


Figure 6 -- Roof trim and water deflector illustration



II Noises While Driving – with roof closed and sun shade (roller blind) rolled up position.
Reference illustrations.



Figure 7 -- Wind deflector and wind deflector seal

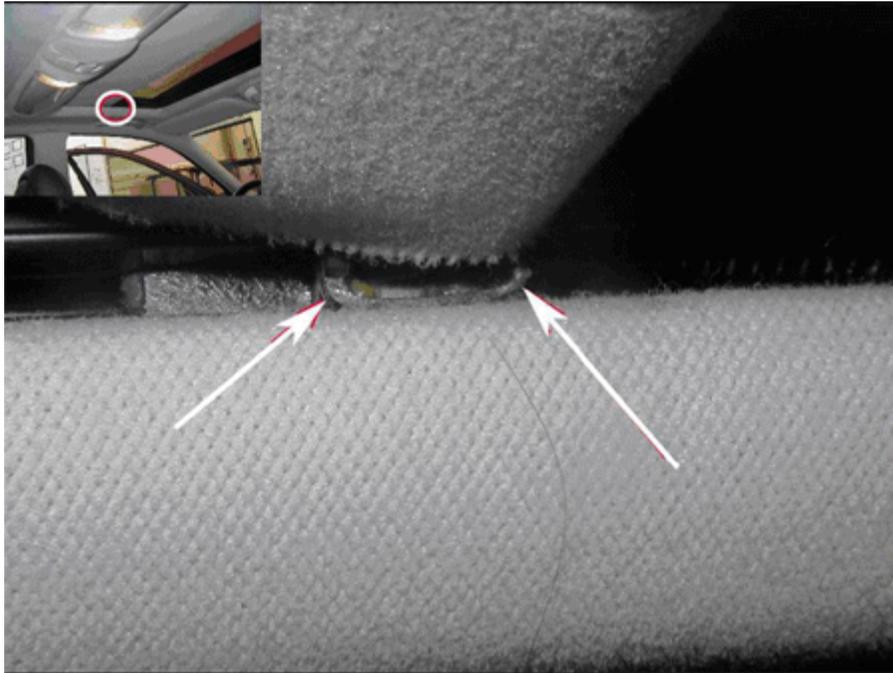


Figure 8 -- Sun shade (roller blind) coupling and guide rail

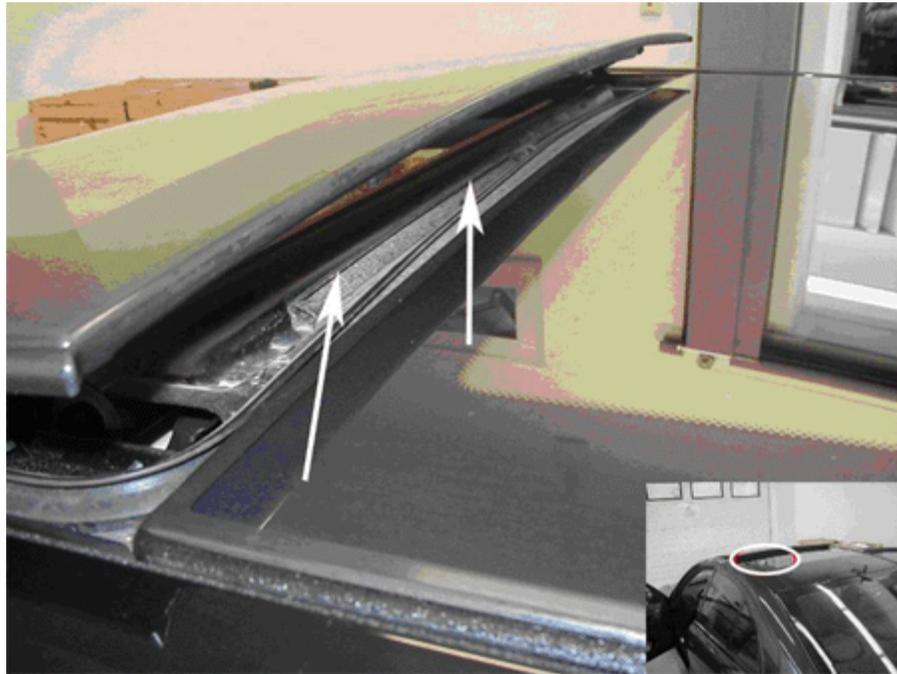
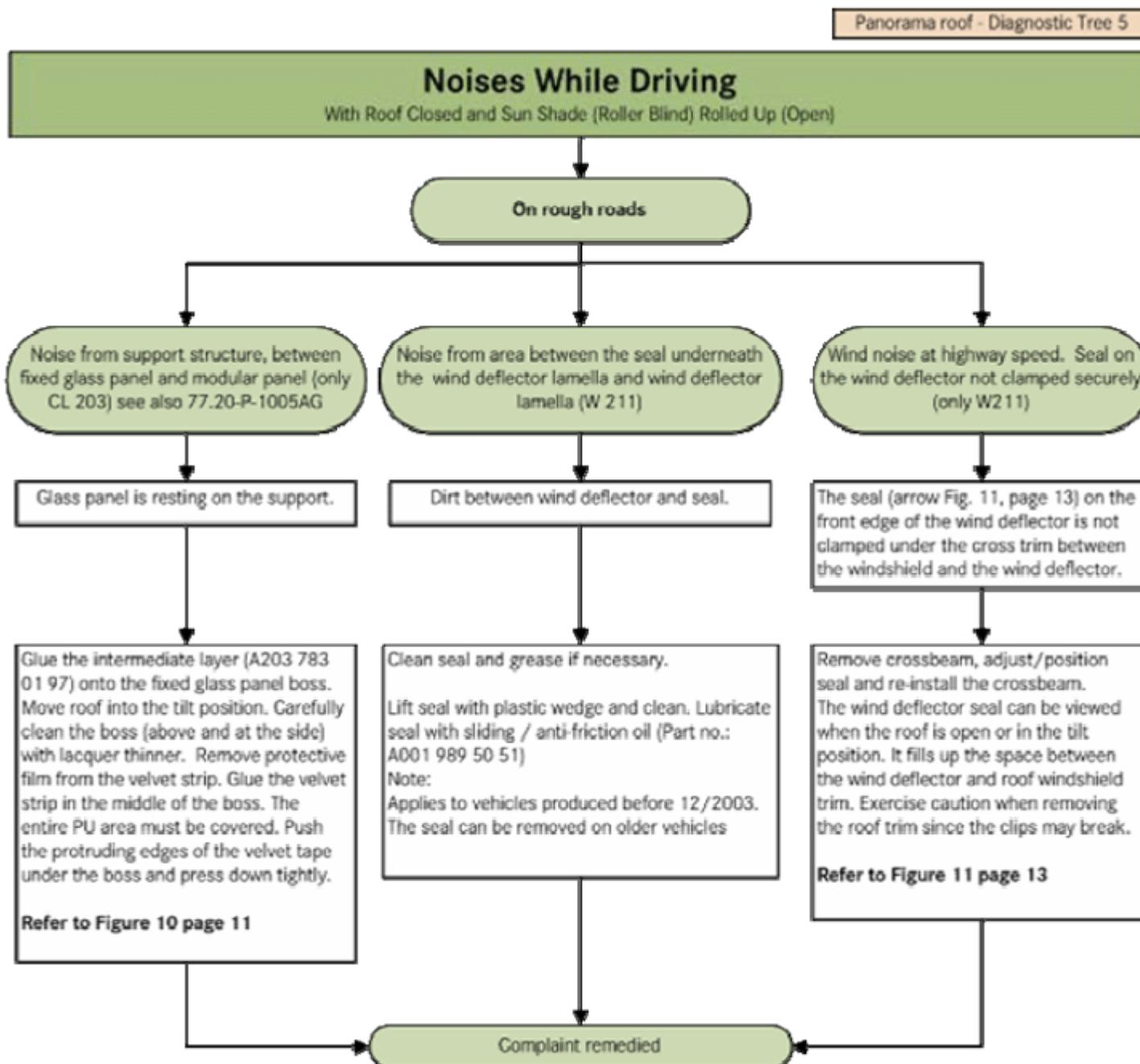


Figure 9 -- Seal above sun shade (roller blind) and glass roof panel



Figure 10 -- Velvet strip



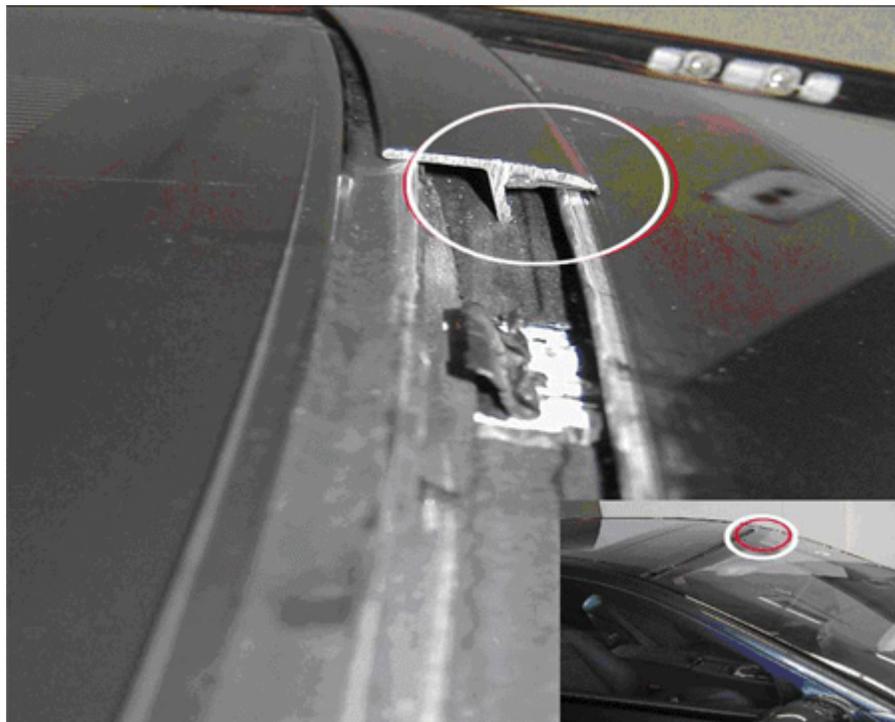
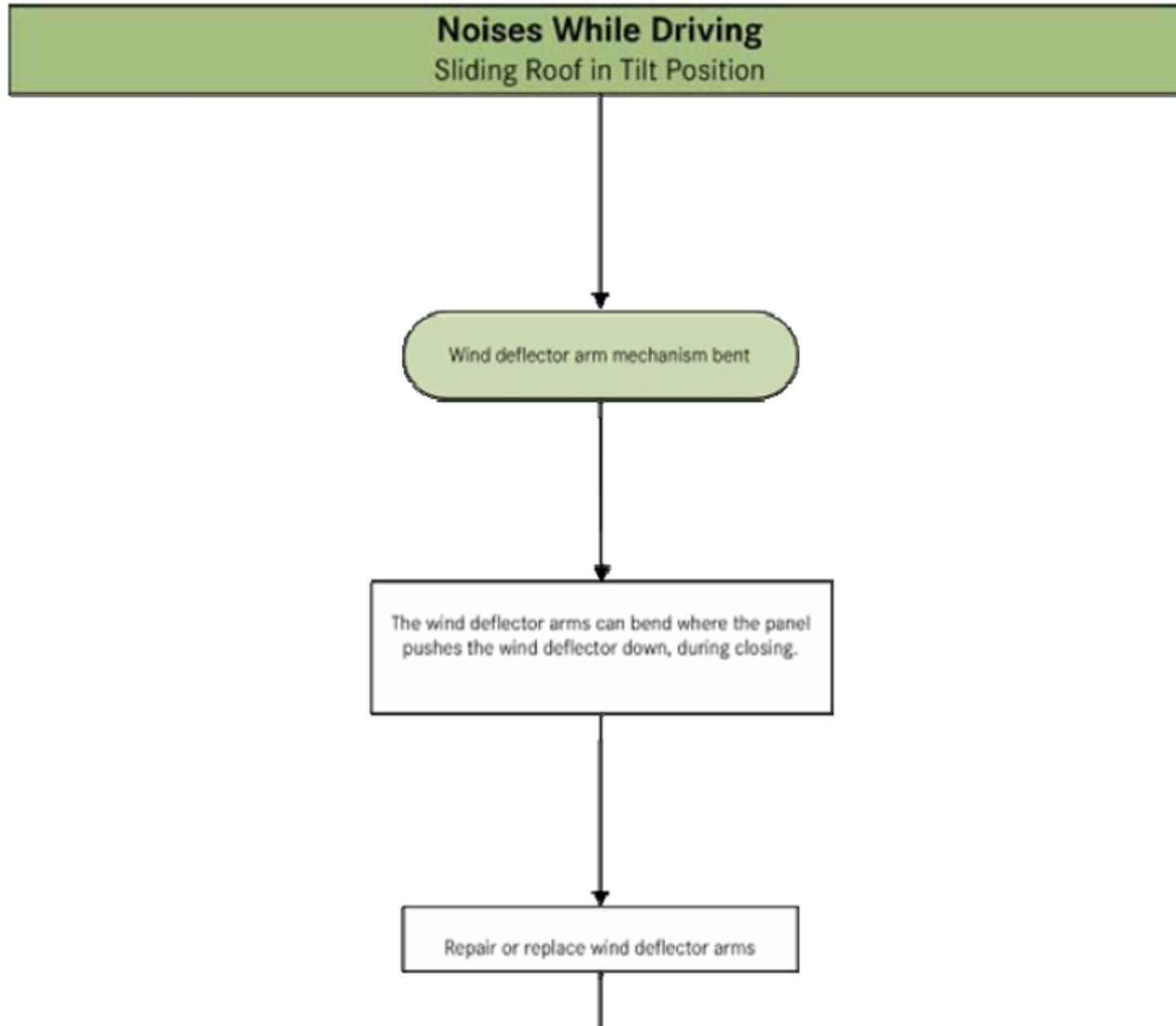


Figure 11 -- Seal on the front edge of wind deflector

III Noises While Driving - roof panel in the tilt position. Diagnostic tree 6.

No example of support illustrations for these occurrences. Refer to the diagnostic troubleshooting tree to analyze and remedy the situation.



IV Noises when Vehicle is Stationary – while operating the roof. Diagnostic tree 7.
VIII Noises During Vehicle Operation and/or when Closed. Diagnostic tree 7 (update).

Panorama roof - Diagnostic Tree 7

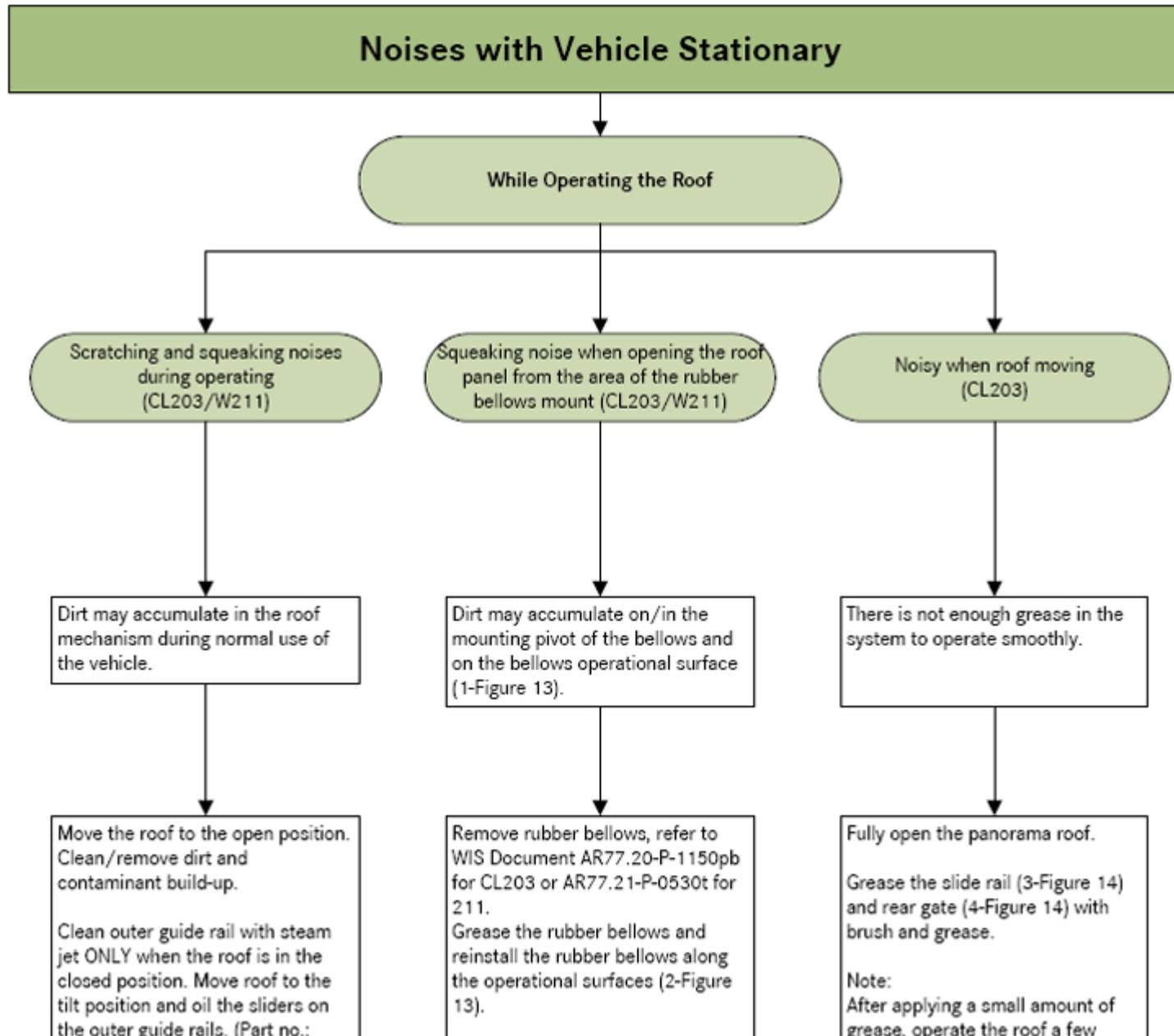




Figure 12 – Guide rails

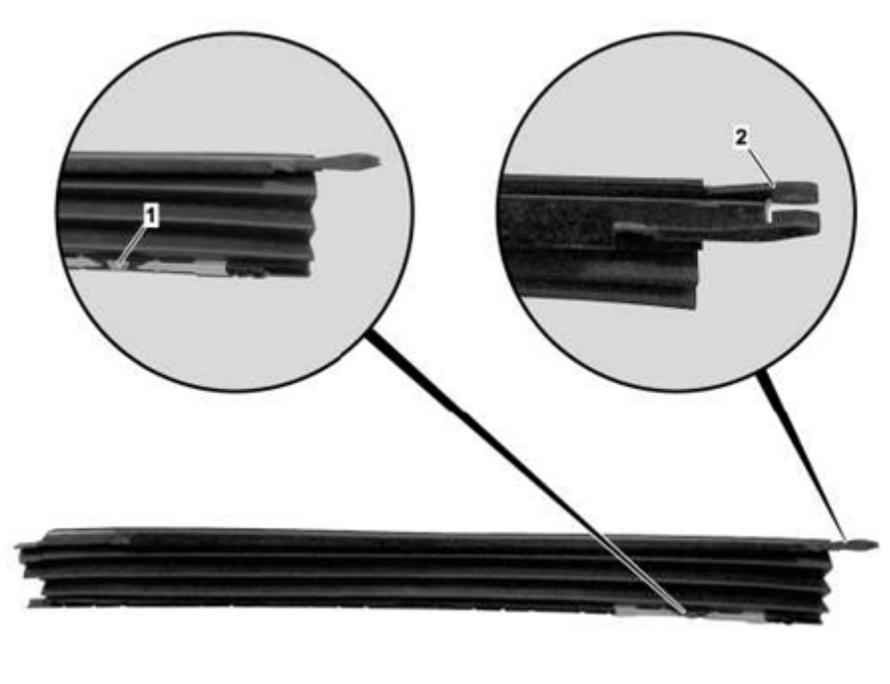


Figure 13 – Rubber Bellows; (1) bellows operational surface; (2) bellows pivot area

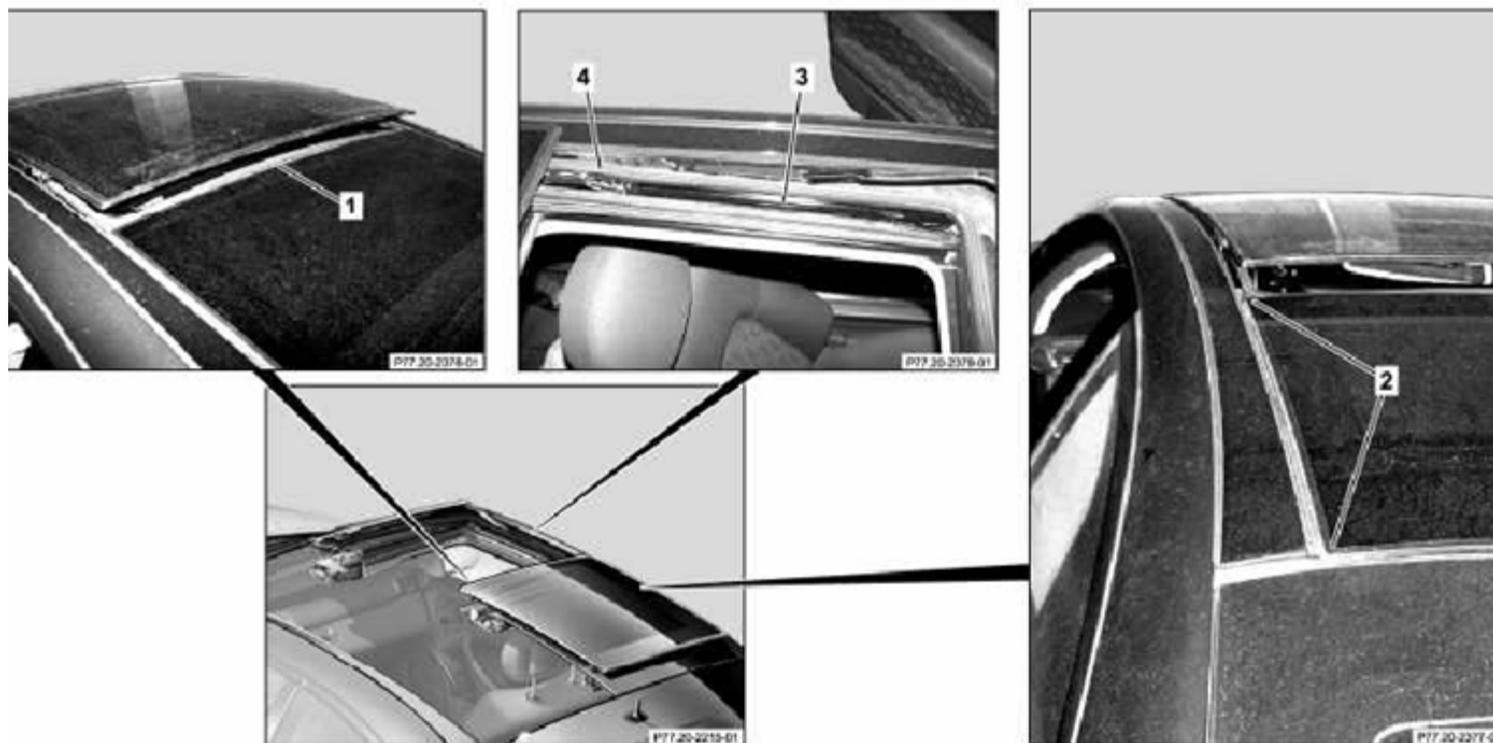
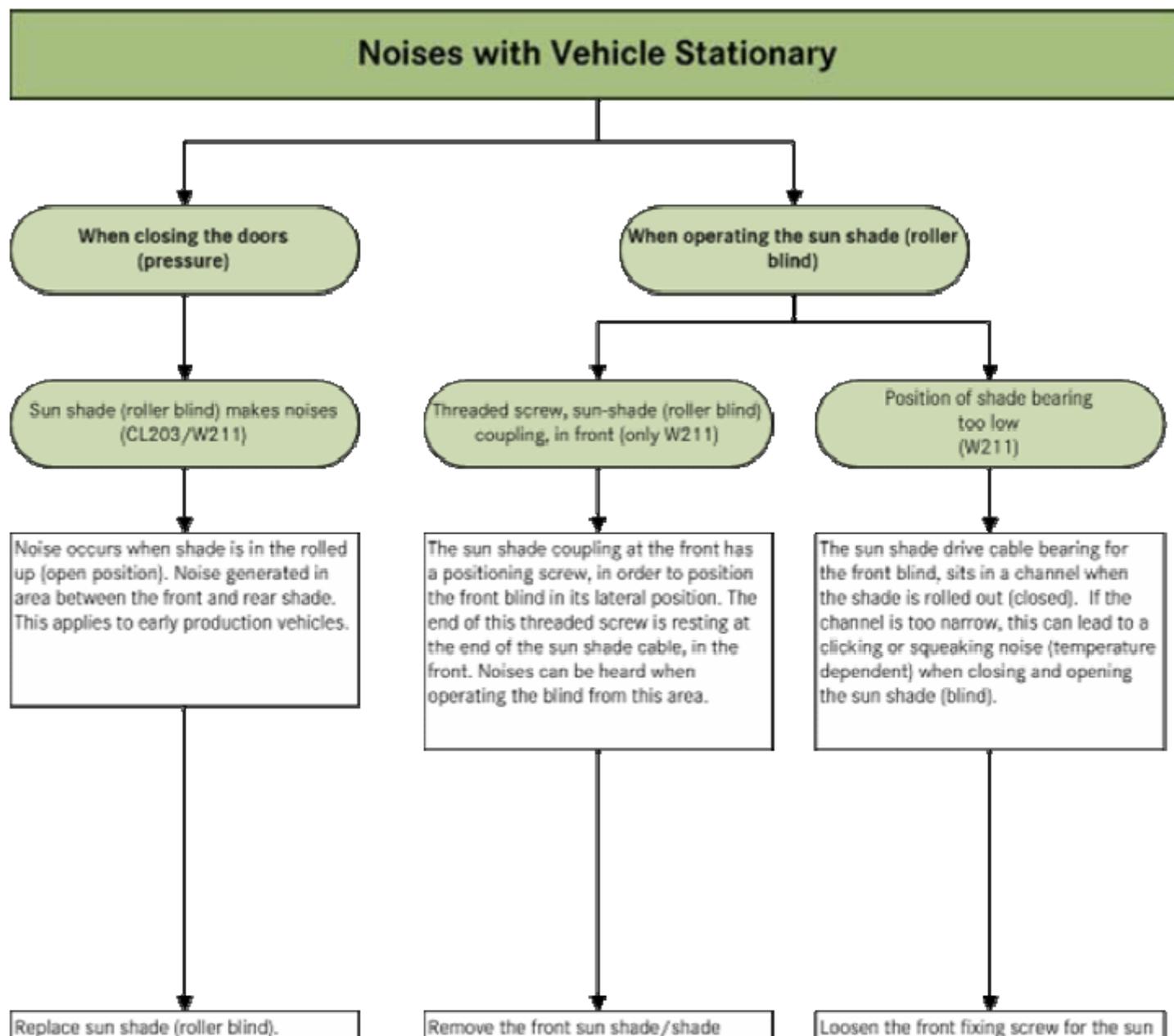


Figure 14 – Guide Rails

V Noises when Vehicle is Stationary – when closing the door; while moving sun shade (roller blind). Diagnostic tree 8.

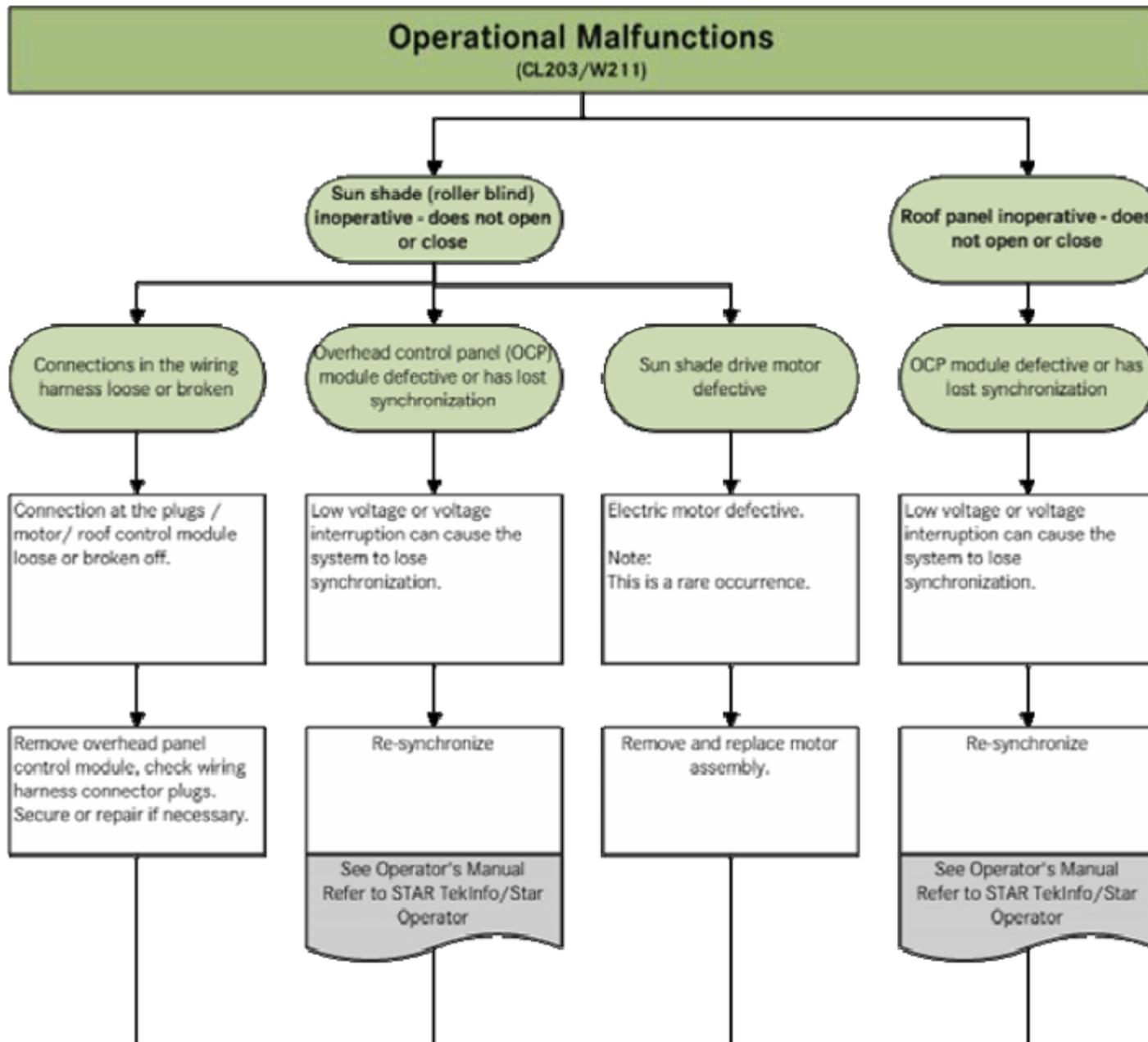
Panorama roof - Diagnostic Tree 8



VI Operational malfunctions – sun shade (roller blind) or roof panel inoperative. Diagnostic tree 9.

No example of support illustrations for these occurrences. Refer to the diagnostic troubleshooting tree to analyze and remedy the situations

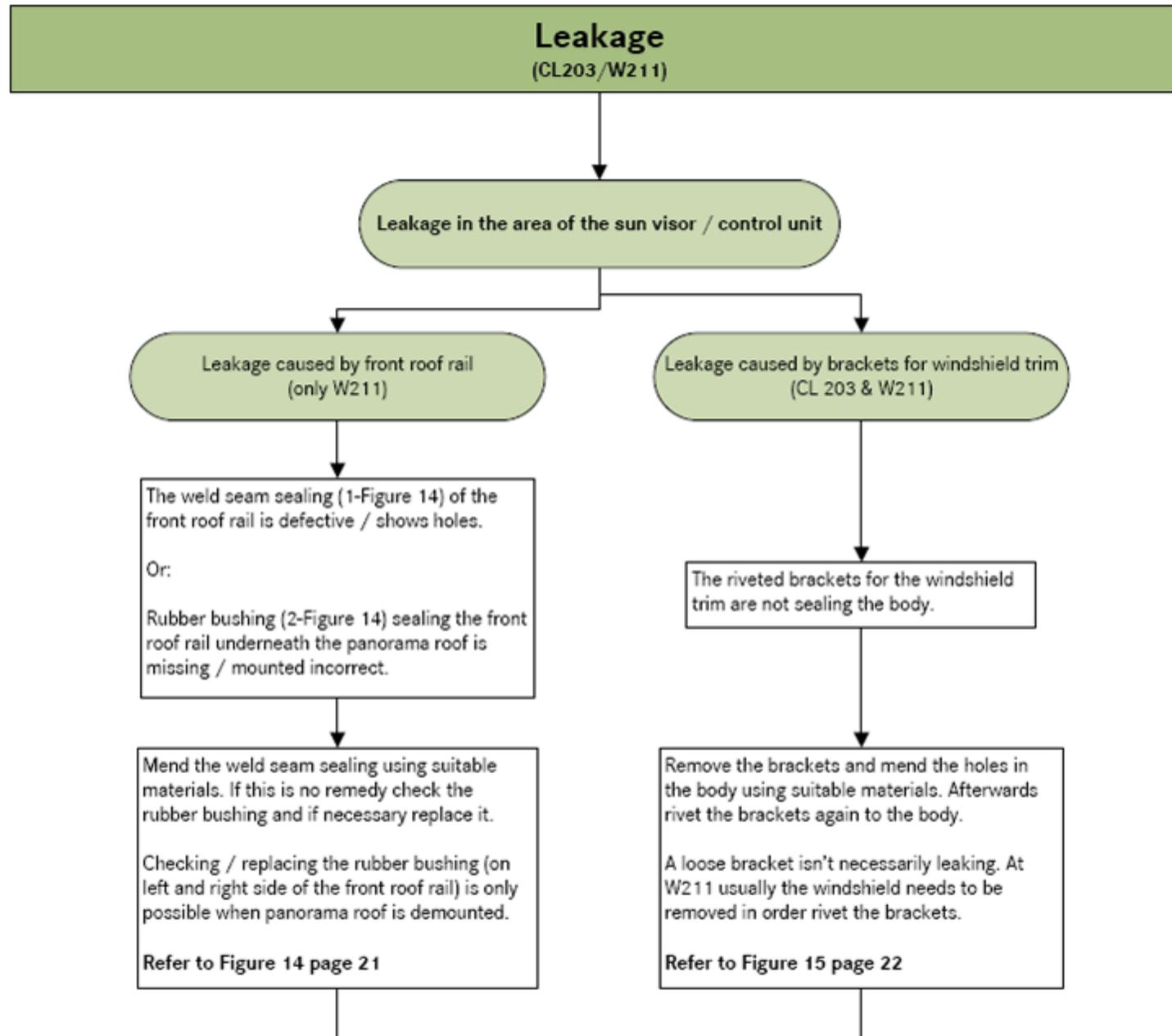
Panorama roof - Diagnostic Tree 9



VII Leakage in the area of the sun visor / control unit. Diagnostic tree 10.

Reference illustrations

Panorama roof - Diagnostic Tree 10



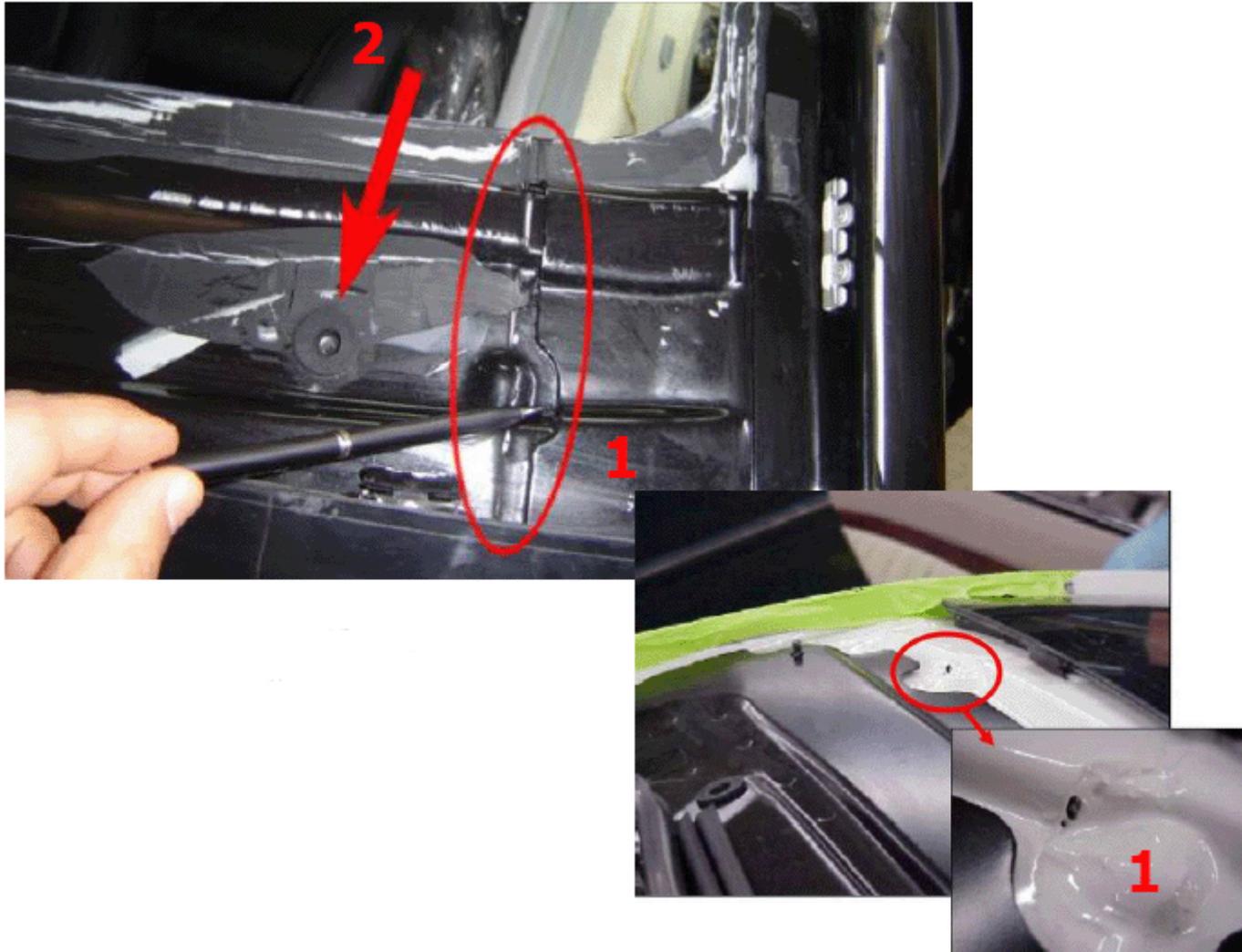


Figure 14 - Weld seam sealing and rubber bushing sealing



Figure 15 – Brackets for windshield trim

VIII Noises During Vehicle Operation and/or when Closed. Diagnostic tree 11.

No example of support illustrations for Diagnostic tree 11. Refer to the diagnostic troubleshooting tree to analyze and remedy the situations.

Panorama roof - Diagnostic Tree 11

