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Analyzing squeaking windows on frameless doors (A5/A7)

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Sample video

* View video titled “Window squeak” to hear noise sample

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There are two different statements customers may make regarding squeaking noises on frameless doors.

- Window squeaks with short-stroke lowering
- Window squeaks when operating the window

Both points can often be reproduced both with the doors open and closed.

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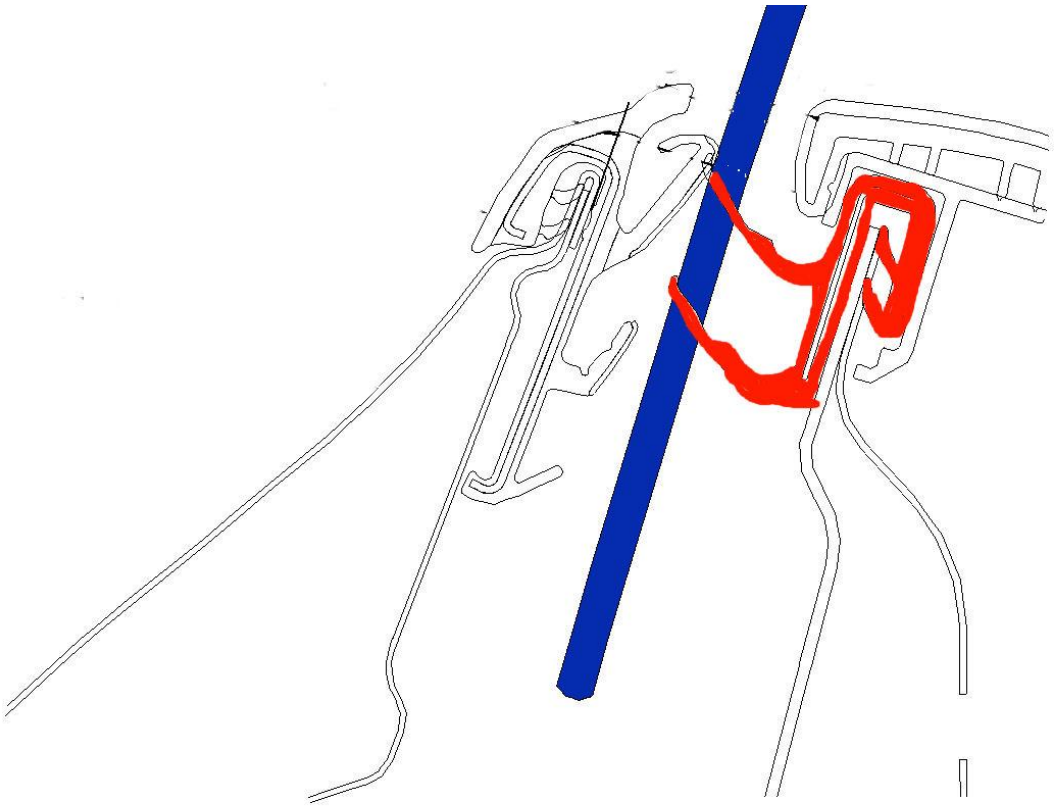

Frequently, excessive contact pressure between the **door window pane** and the **inner window slot trim strip** is the cause of squeaking door windows.

Blue: **door window**
Red: **inner window slot trim strip**

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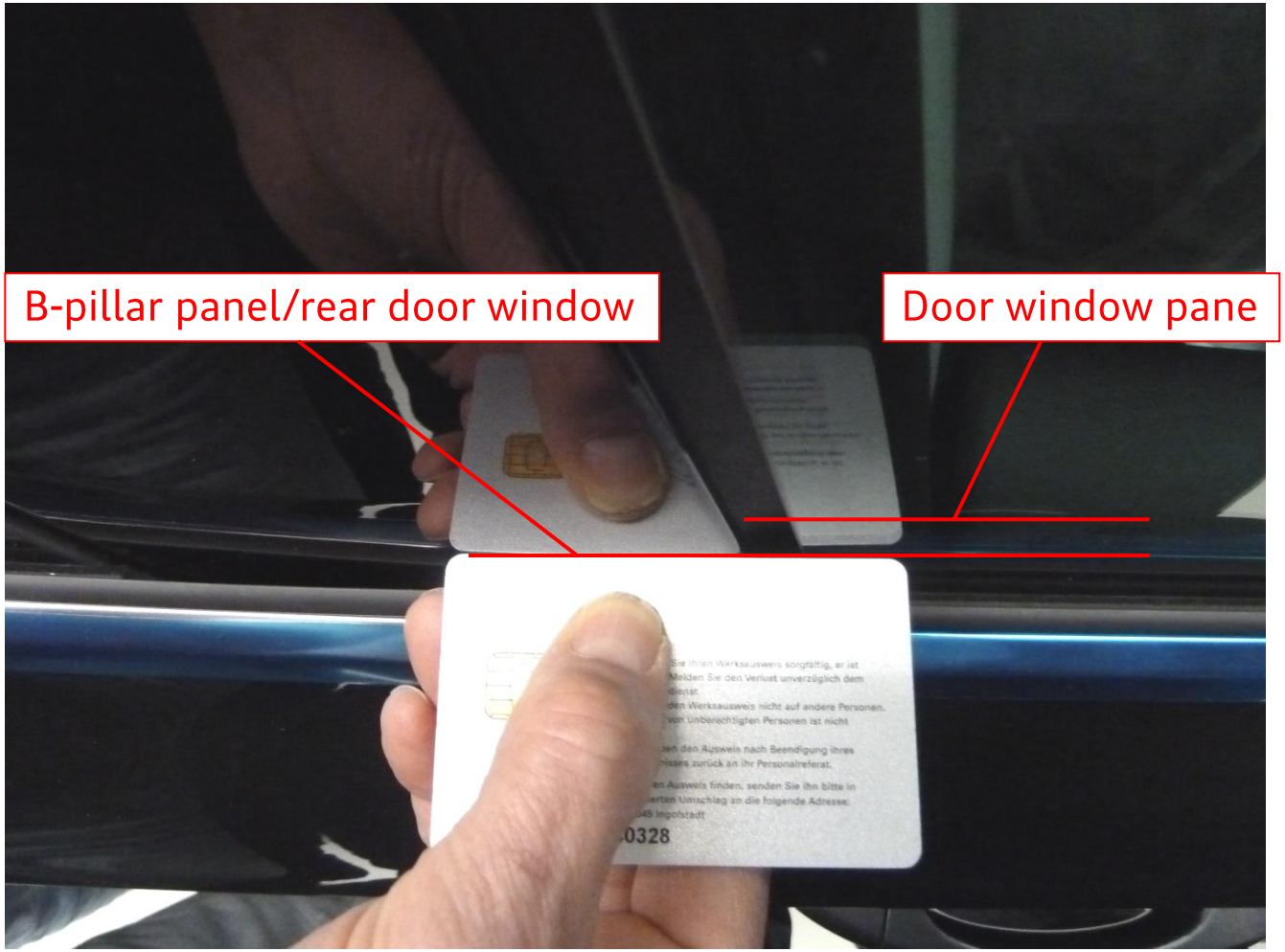

The first step is to check the installation position of the door window in the vehicle.

If the window pane is too far in the center in relation to the vehicle, this is the first sign that a window may be squeaking.

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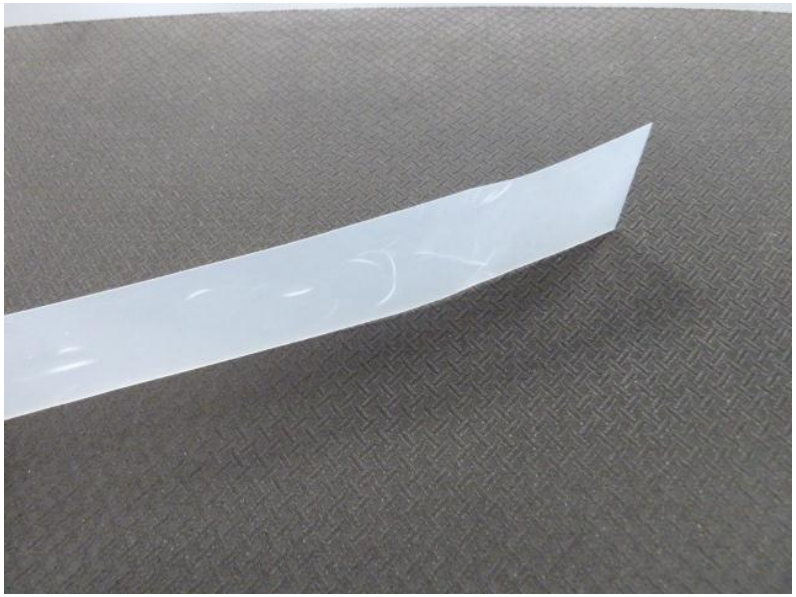

It is very easy to analyze whether the contact pressure between the inner window slot trim strip and the door window pane is too great.

To do this, a film strip of around 20 x 4.5 cm in size is required. It is important to ensure that this film is approx. 0.3 mm thick.

Film strips can be made from folder film/label tabs, such as Avery no. 05113081.

You can then use this film to analyze the cause of the squeaking window.

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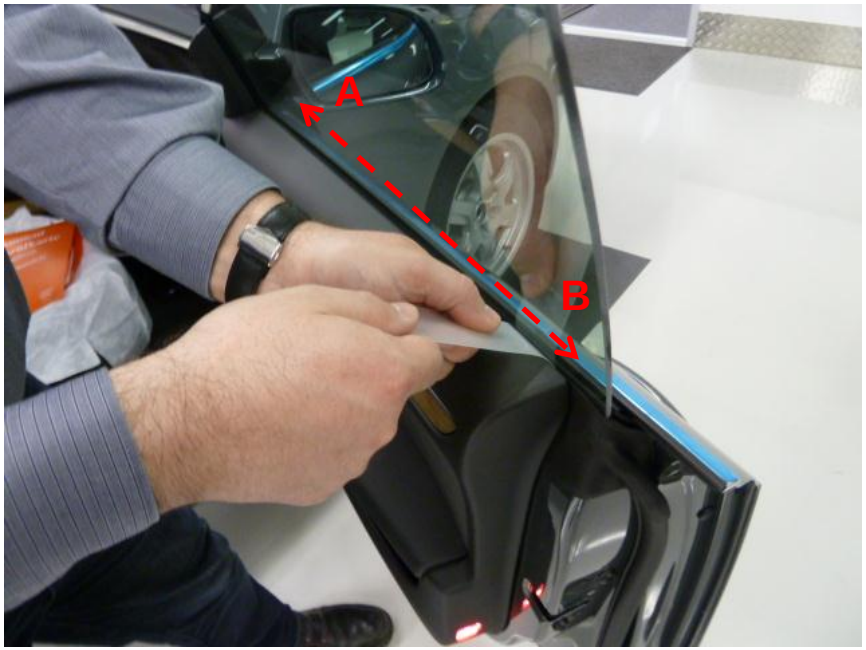

Using this film, you can now analyze whether the pressure between the window trim slot strip and the door window panes is too great.

In order to insert the film between the inner window slot trim strip and the door window pane, the door window must be gently pushed outwards.

Now slide the inserted film from **A** to **B**; this will determine whether there is a specific area in which it is considerably harder to slide/pull the film.

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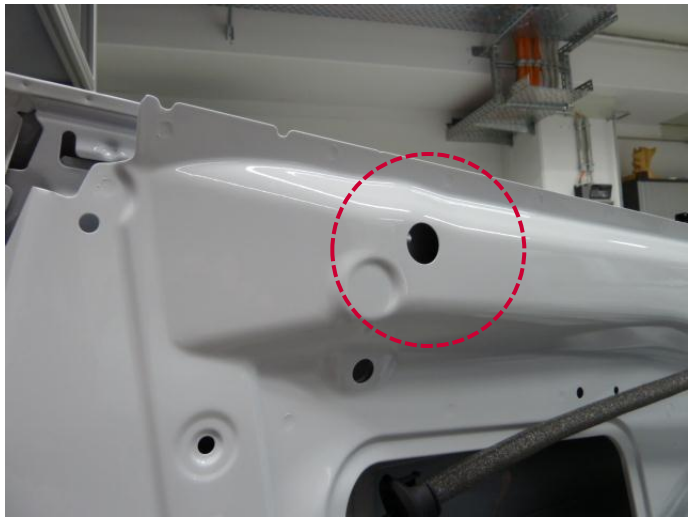

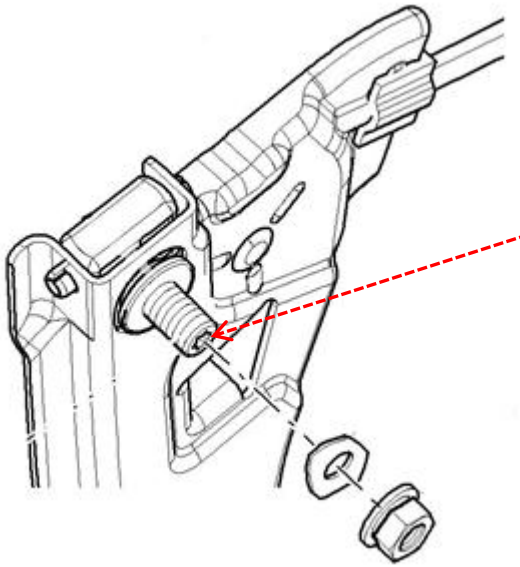

If the door window is now too low in the area around the vehicle's B-pillar or the pressure between the door window pane and the window slot trim strip is determined to be too great, the following adjustment (to reduce the pressure) can be made.

The position of the door window can be changed using the top contact point on the B-pillar. To change the position, loosen the nut and rotate the inner torx to position the door window pane in relation to the B-pillar.

1 revolution = 1.25 mm

The door window must not protrude into the B-pillar panel/rear door window! The vehicle must continue to be wind and watertight.

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Note:

This analysis aid does not represent a general solution to be used for complaints about squeaking noises when operating the window!

Squeaking noises can be caused by a variety of issues.

- Incorrect installation
- Wear
- Environmental influences (tree resin, pollen dust, industry, sand)
- Incorrect car care products used
- Weather (temperature, different climate zones)
- etc.

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