SIB 51 09 20 2020-03-05

G01 WIND NOISE DIAGNOSIS

MODEL

E-Series	Model Description	Production Date
G01	X3 Sports Activity Vehicle	September 1st, 2017 to October 1st, 2019.

SITUATION

Customer complaint of hissing or wind noise present in the interior of the vehicle at speeds above 60 mph.

CAUSE

The following areas and defects may cause this complaint:

1. A pillar gutter trim not correctly installed.
2. Door seal not correctly installed, or a gap exists between the seal and the body.
3. Side view mirror cover deformity.
4. Improper door adjustment.
5. Side view mirror assembly to door alignment, and triangle seal deformity.

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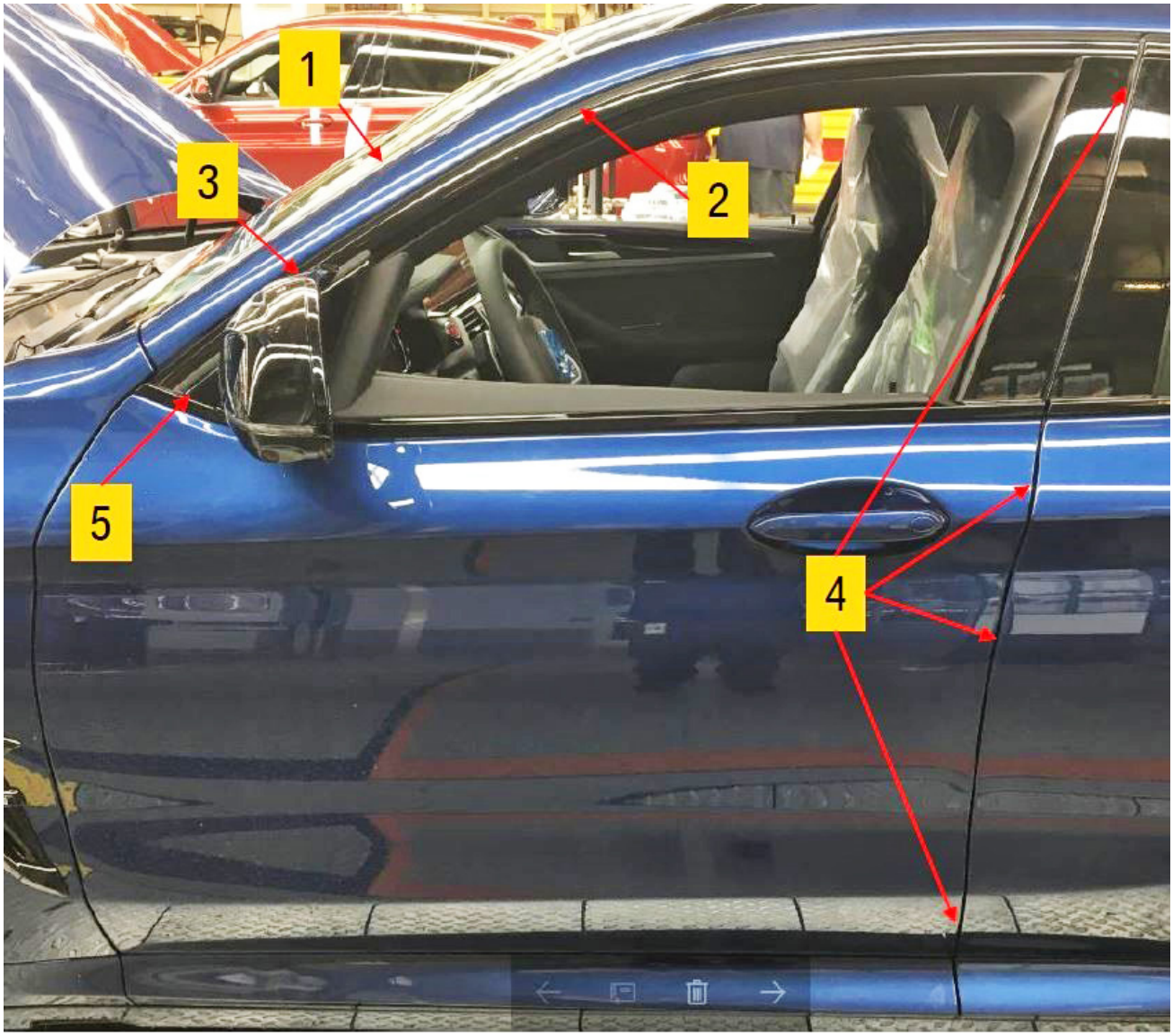

PROCEDURE

1. Test drive the vehicle to reproduce the customer complaint.

   Was the noise able to be reproduced?

   Yes - Refer to the attachment (G01 Wind noise diagnosis).
   No - Continue standard diagnosis.

2. Test drive the vehicle to verify noise has been eliminated.

PARTS INFORMATION

Obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number	Description	Quantity
51 33 7 956 521	Adhesive tape	Up to 2
51 24 9 500 543	Foam pad	Up to 2

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WARRANTY INFORMATION

Eligible and Covered Work/Repairs

When used to repair a verified defect in materials or workmanship (excluding issues caused by previous body repairs), eligible repairs are covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

To submit a claim, please following the established and applicable warranty policy and procedures (Labor/Part/Sublet – bulk materials) that apply to the repair being performed.

Refer to AIR for the corresponding defect code, flat rate labor operations and the flat rate unit (FRU) allowances (including diagnosis with separate punch times).

Defect Code:	**4151004100**	Front door poorly fitted
	5116004100	Exterior mirror cover cap poorly fitted
	5133203900	Mirror triangle seal, distracting noises
	5121103900	Front outer window cavity cover strip, distracting noises
	4121013900	A-pillar distracting noises
	4121033900	Front cowl panel, distracting noises

Supporting Materials
picture_as_pdf B510920_Attachment (G01 WIND NOISE DIAGNOSIS).pdf

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G01 WIND NOISE DIAGNOSIS AND REPAIR INSTRUCTIONS

1. Inspect the gutter trim for proper installation.

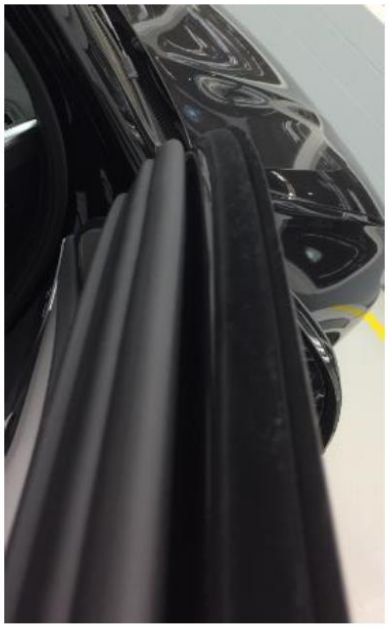
- Re-install if necessary to be flush with the A pillar body. Refer to 51 31 030 removing and installing gutter strip.

2. Inspect door seal for proper installation.

- Image “A” shows a incorrectly installed seal causing a gap between the seal and the body.
- Image “B” shows the the gap when the door is open.
- Image “C” shows a properly installed seal with no gap present.
- Properly install the seal.
- Reinstall or adjust as needed (refer to REP 51 71 115)

A

B



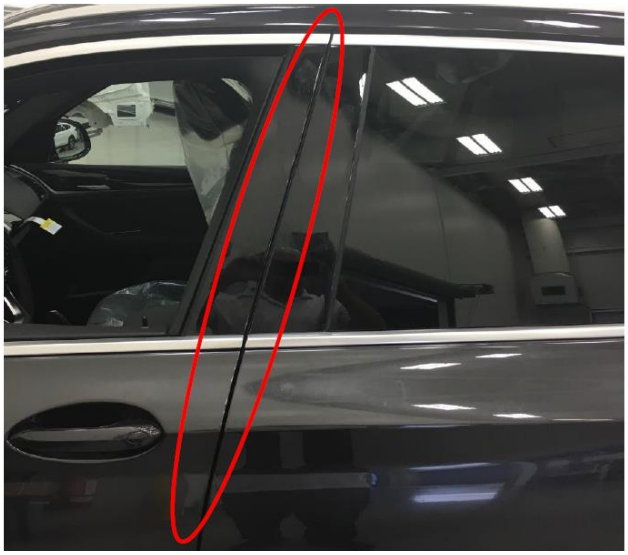
C

3. If noise is suspected to be caused by the mirror cap:

- Tape the mirror cap channel and test drive the vehicle.
- If the noise is eliminated, inspect the gap between the mirror cap and mirror panel must be even.
- The water channel gap should be 2 mm (plus / minus 0.4 mm). Larger gap may create whistling noises.
- If the gap is enlarged and the noise is eliminated when taping the mirror cap, the mirror cap must be exchanged.

4. Inspect the door proper alignment and gaps.

- See repair instructions "41 51 004 Adjusting front left or right the door".
- Adjustment range 0 mm + 1.9 mm protrusion / 0.3 mm short length. Protrusion is recommended, short length should be avoided.



5. Inspect the side view mirror assembly to door for proper fitment.

- If the assembly is not properly aligned, remove the assembly and inspect proper installation and insulation foam.

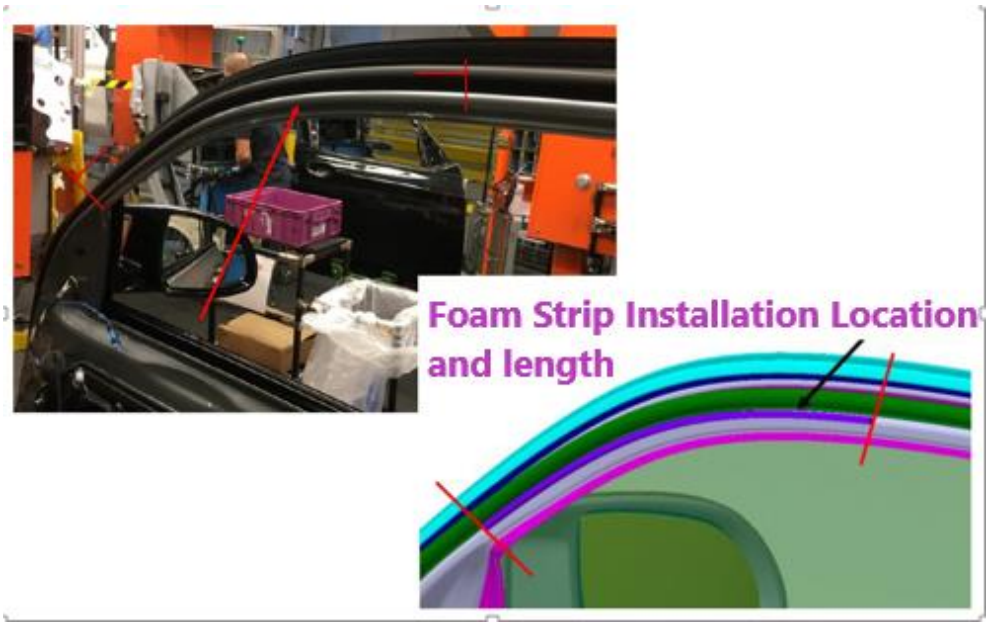
- Seal the door flange mirror connector access with adhesive tape with part number 7956521 (Image A).
- Inspect the mirror assembly insulation foam for damage or deformity and replace if necessary. (Image B)

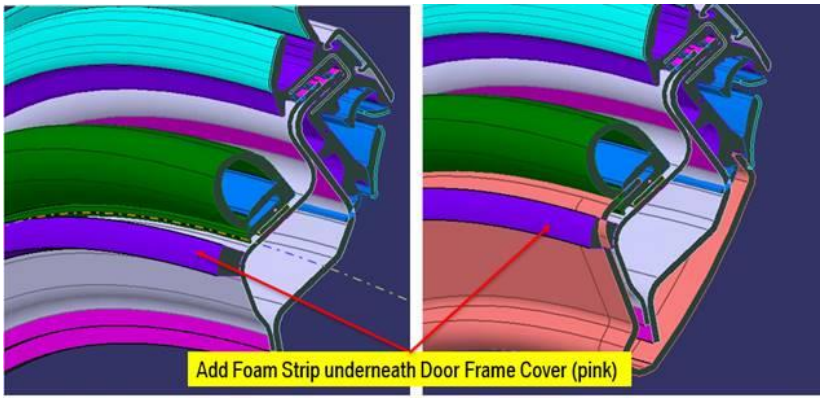
A

B

6. If noise is coming from the front doors without any of the above mention defects.

- Remove the window frame cover. Refer to repair instructions 51 32 420 remove and install window frame.
- Apply foam strips part number 9500543 on the door frame just below the door main seal as shown below.





7. If noise is coming from the rear door without any of the above mention defects:

- Check the positioning of the window bar foam at the bottom of the rear door.
- Remove trim panel of the rear door.
- Check whether the foam is correctly positioned at the bottom of the window bar. Image “A” shows incorrect installation.
- Image “B” shows foam correctly installed. Must not sit below the capping line.

A

B