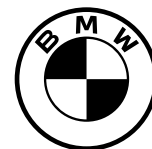


Original BMW Parts and Accessories.

Installation Instructions.



M Performance Exterior Components Retrofit Kit.

BMW M5 Saloon (G90)

BMW M5 Touring (G99)

Retrofit kit number

Number	Component designation	Installation time (h)	Installation as described in ISTA/AIR*
51 11 5A7D672	Front attachment, carbon, right (G90, G99)	0.50	-
51 11 5A7D671	Front attachment, carbon, left (G90, G99)	0.50	-
51 77 5A70D64	Side skirt attachment, carbon, right (G90, G99)	0.35	-
51 77 5A70D63	Side skirt attachment, carbon, left (G90, G99)	0.35	-
51 75 5A854A6	Rear diffuser, carbon, right (G90, G99)	0.50	-
51 75 5A854A5	Rear diffuser, carbon, left (G90, G99)	0.50	-
51 12 5A852A0	Tail fin, carbon, right (G99)	0.25	-
51 12 5A85299	Tail fin, carbon, left (G99)	0.25	-
65 20 5A59AB9	Aramid antenna cover (G90) (see installation instructions 01 29 5A5C9E3)	0.50	-
65 20 5A59AB7	Aramid antenna cover (G99) (see installation instructions 01 29 5A5C9E3)	0.50	-
51 62 5A79E68	Rear spoiler, Carbon Pro (G90) (see installation instructions 5A95648)	0.50	-
51 62 7908985	Rear spoiler, Carbon (G90)		X
51 16 8083557	Exterior mirror cap, CFRP, LHD, left (G90, G99)		X
51 16 8083558	Exterior mirror cap, CFRP, LHD, right (G90, G99)		X
51 16 8083559	Exterior mirror cap, CFRP, RHD, left (G90, G99)		X
51 16 8083560	Exterior mirror cap, CFRP, RHD, right (G90, G99)		X

*This installation work is carried out as described in the relevant ISTA/AIR repair instructions and is not shown in these installation instructions

Installation time

Installation time, see table. This may vary depending on the condition of the vehicle, the equipment in it and the type of retrofit.

The installation time shown does not include any time spent on programming/coding.

The calculation of the total costs for the programming time must be factored into the calculation of retrofitting costs (must not be invoiced under the warranty).

Important information

These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

These installation instructions are intended for use by qualified specialist staff trained on BMW vehicles with the relevant expert knowledge.

All work must be completed using the latest BMW repair manuals, wiring diagrams, servicing manuals and work instructions, in a logical order, using the prescribed tools (special tools), and observing current health and safety regulations.

If you experience installation or functional problems, restrict troubleshooting to approx. 0.5 hours for mechanical work and 1.0 hour for electrical work.

To avoid unnecessary extra work and/or costs, send an inquiry to the technical parts support team.

Quote the following information:

- VIN,
- retrofit kit part number,
- a detailed description of the problem,
- any work already carried out.

Do not archive the printout of these installation instructions. The current version can be found in the EPC.

Pictograms



Denotes instructions that draw your attention to dangers.



Denotes instructions that draw your attention to special features.

- ◀ Denotes the end of the instruction or other text.

Installation information

- All contact/bonding surfaces on the components being installed must be absolutely dry, clean, and free of wax, silicone and grease. These surfaces must be treated with a suitable BMW cleaner or BMW primer (see EPC for details), using the appropriate product application instructions.
- If you use adhesive tape, it must be applied using a contact pressure of between 10 N/cm² and 50 N/cm². (A forceful press of your thumb will reach around 35 N/cm².) It is not how long you apply this pressure, but the force with which it is applied that counts. Press the component into place over the entire bonding area. Removing the adhesive tape after pressing the component into place will destroy the bond.
- Take care not to damage the parts when opening the packaging.
- Check that all the parts fit accurately on the car before installing them.
- All the components and their bonding surfaces must be at room temperature for installation. The ideal relative humidity is 50%. Different values will change the specified times.
- After completing the bonding and installation work, the car must remain stationary at room temperature for at least 12 hours.
- If adhesives are used, the car may be driven after 24 hours, and may be taken through a car wash after 48 hours. The car may only be driven at a speed of $v_{\max} < 100$ km/h for a period of 24 to 48 hours.
- The installed parts may become loose and fly off the car if you fail to wait for the primer/adhesive to dry fully. Danger of accidents!
- Some of the installation steps are shown only on one side of the car. Proceed in the same way on the other side of the car.
- All illustrations show LHD cars; proceed in the same way on RHD cars.

Special tools required

- None

Advice to be given to the customer

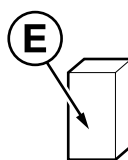
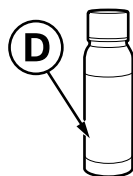
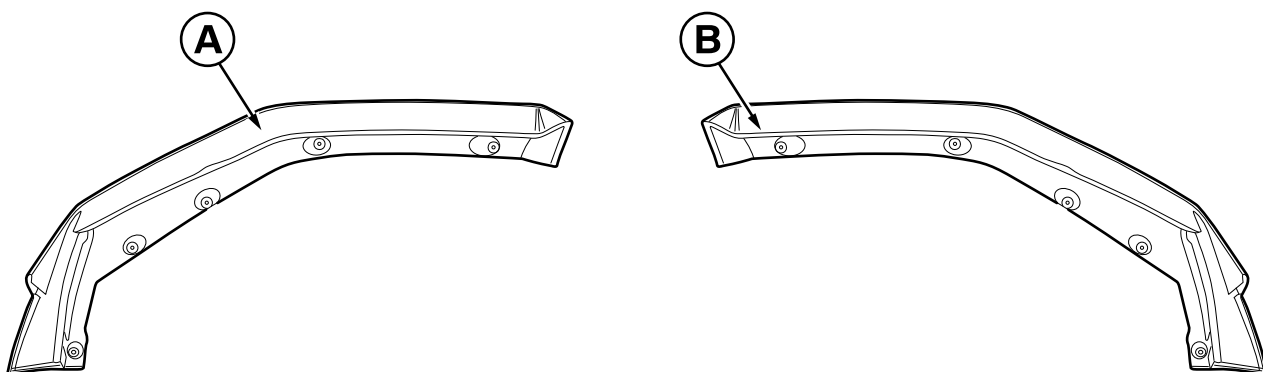
If the front attachment is installed, ground clearance is reduced. For this reason, Park Assist should not be used when moving forward into a parking space. Otherwise the front attachment may be damaged when approaching higher obstacles.

The “Smart Opener” function on the boot is geometrically restricted by the carbon diffuser and can only be activated directly below the centre light.

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2. Carbon side skirt attachment parts list	6
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4. Carbon tail fin parts list	8
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7. Installing the carbon side skirt attachment	12
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10. Concluding work and coding	20

1. Carbon front attachment parts list

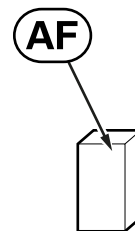
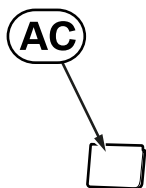
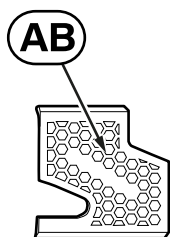


G90 0001 V

Legend

- A** Carbon left front attachment
- B** Carbon right front attachment
- C** Hexagon screw (4 x, part number 07 14 7148437, not included in the parts kit, see EPC for details)
- D** Cleaner (not included in parts kit, see EPC for details and part number)
- E** Liquid adhesive (not included in parts kit, see EPC for details and part number)

2. Carbon side skirt attachment parts list

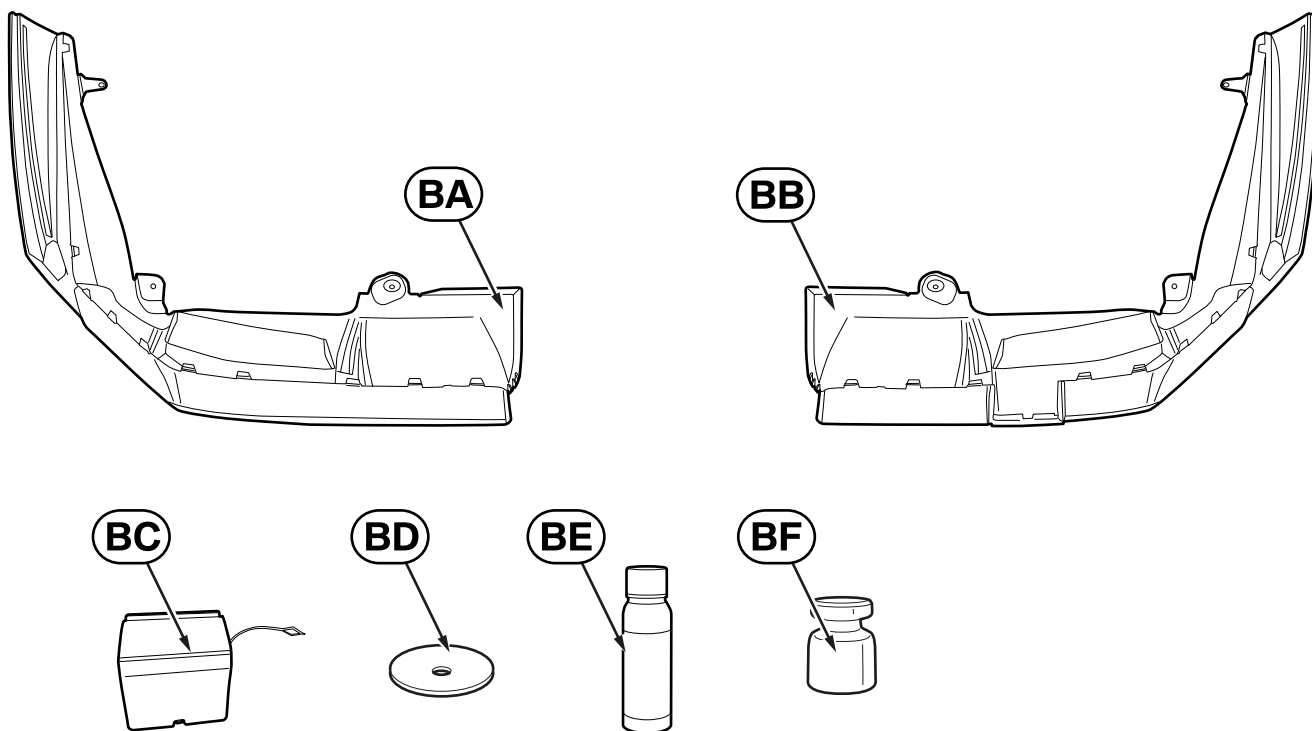


G90 0010 V

Legend

- AA** Carbon side skirt attachment, left/right (left side shown)
- AB** Front template (left side shown)
- AC** Rear template (left side shown)
- AD** Cleaner (not included in parts kit, see EPC for details and part number)
- AE** Primer (not included in parts kit, see EPC for details and part number)
- AF** Liquid adhesive (not included in parts kit, see EPC for details and part number)

3. Carbon rear diffuser parts list

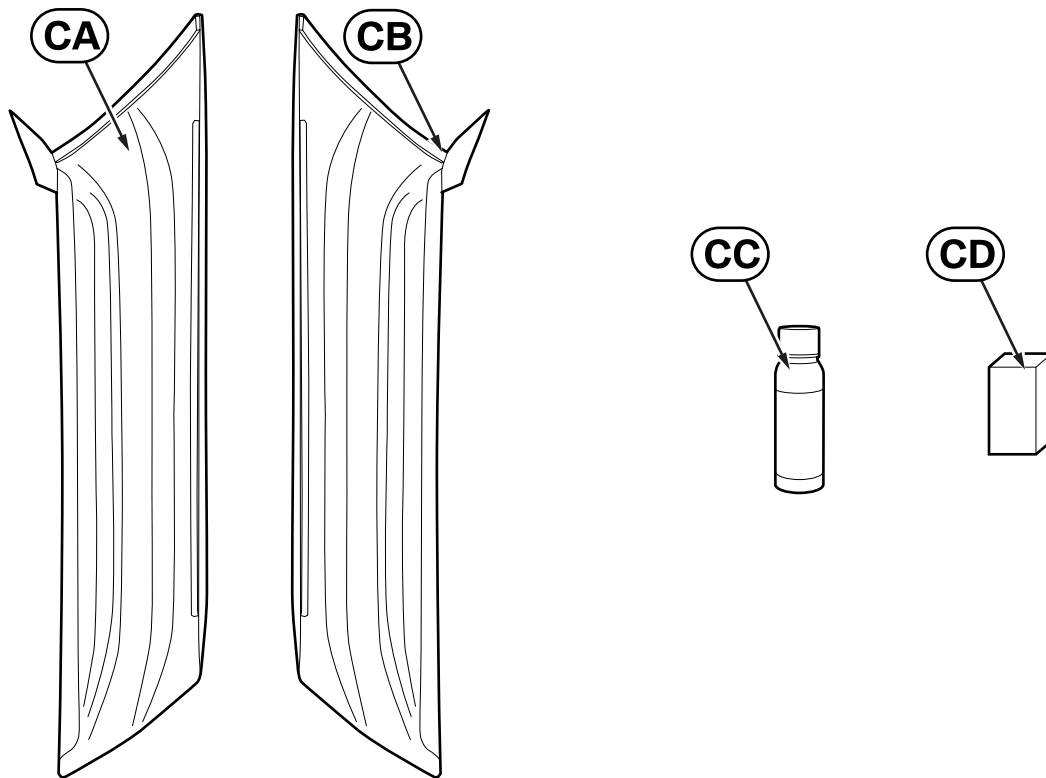


G90 0030 V

Legend

- BA** Rear diffuser, carbon, left
- BB** Rear diffuser, carbon, right
- BC** Towing eyelet trim
- BD** Washer (2 x)
- BE** Cleaner (not included in kit, see EPC for details)
- BF** Primer (not included in kit, see EPC for details)

4. Carbon tail fin parts list



G90 0050 V

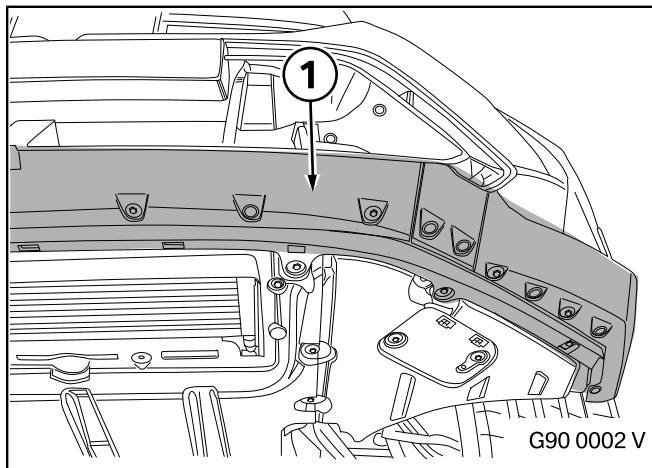
Legend

- CA** Carbon tail fin, left
- CB** Carbon tail fin, right
- CC** Cleaner (not included in kit, see EPC for details)
- CD** Liquid adhesive (not included in kit, see EPC for details)

5. Preparations

	ISTA/AIR No.
The following components must be removed first of all	
- None	---

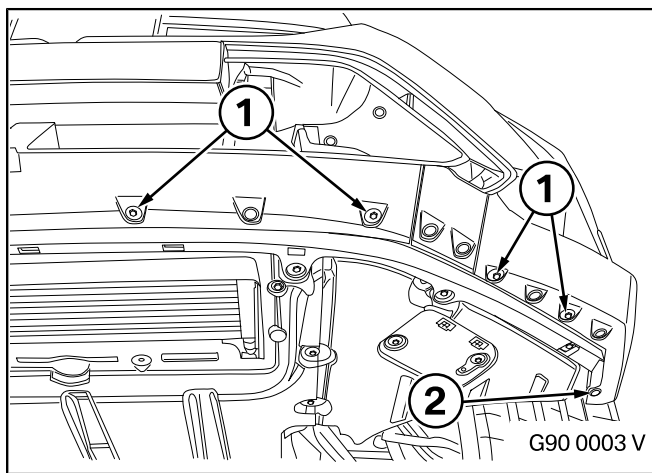
6. Installing the carbon front attachment



☐ The bonding surfaces must be completely dry, clean, and free of wax or grease.

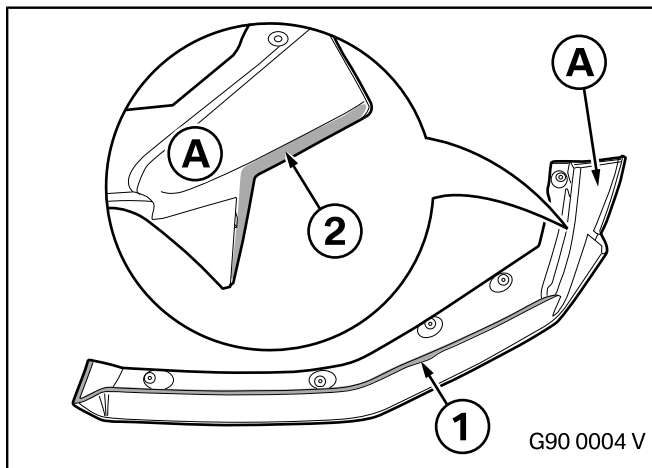
Wait until the cleaner is fully dry. ◀

Clean the surface (1) of the front trim panel with cleaner **D**.



Remove the screws (1), they will not be reused.

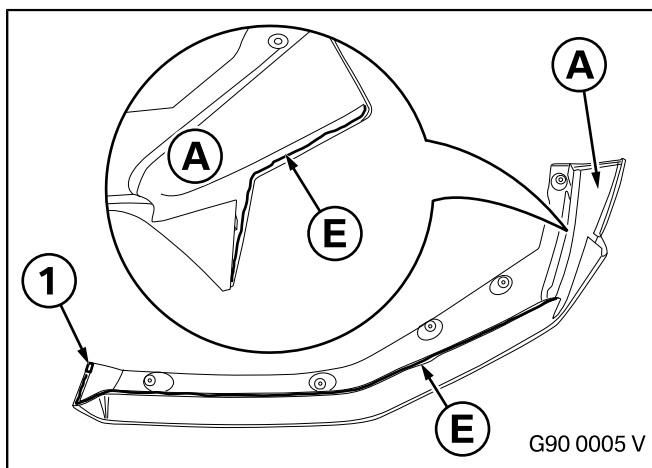
Remove the expanding rivet (2) and keep it, as it will be reused.



☐ The bonding surfaces must be completely dry, clean, and free of wax or grease.

Wait until the cleaner is fully dry. ◀

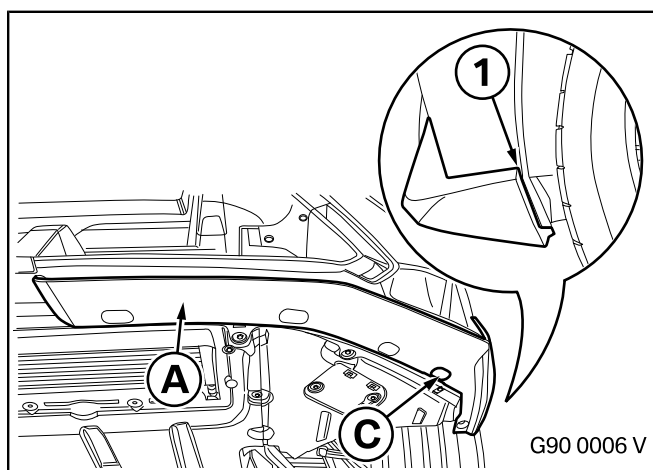
Abrade the surfaces (1) and (2) of the carbon front attachment **A** using suitable tools and then clean them with cleaner **D**.



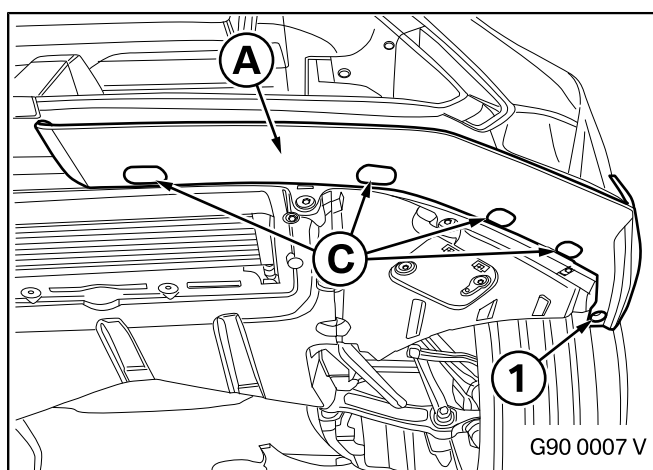
To secure the carbon front attachment **A**, apply a small strip of adhesive tape (1) to the central lug.

Apply a thin bead of liquid adhesive **E** to the surfaces of the carbon front attachment **A** that you have just cleaned.

6. Installing the carbon front attachment

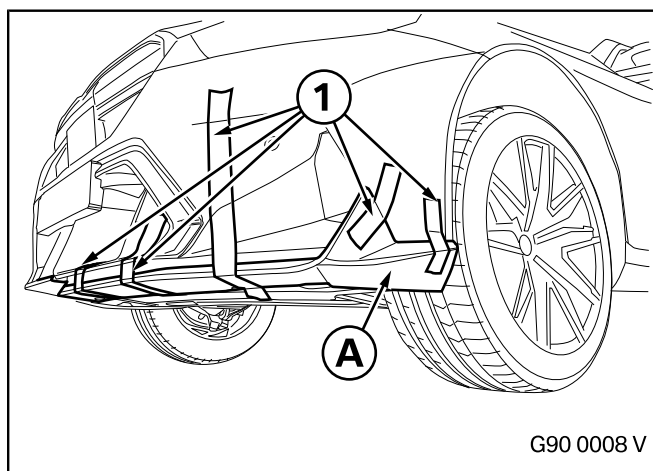


Place the carbon front attachment **A** in its installation position and secure it using a hexagon screw **C**. Ensure that the edge (1) is flush with the wheel arch trim panel.



Press the retained expanding rivet (1) into the outer opening of the carbon front attachment **A**.

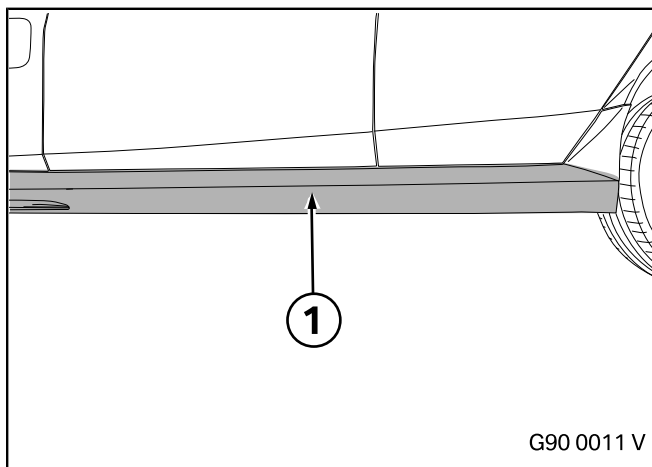
Secure the carbon front attachment **A** using the four hexagon screws **C**.



Secure the carbon front attachment **A** using suitable adhesive tape (1).

 Leave the car to stand for **24 hours** before removing the adhesive tapes. Refer to the installation instructions on **page 2**. ◀

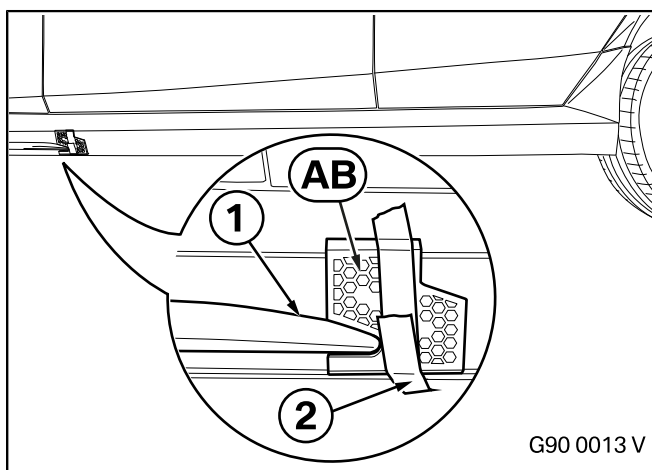
7. Installing the carbon side skirt attachment



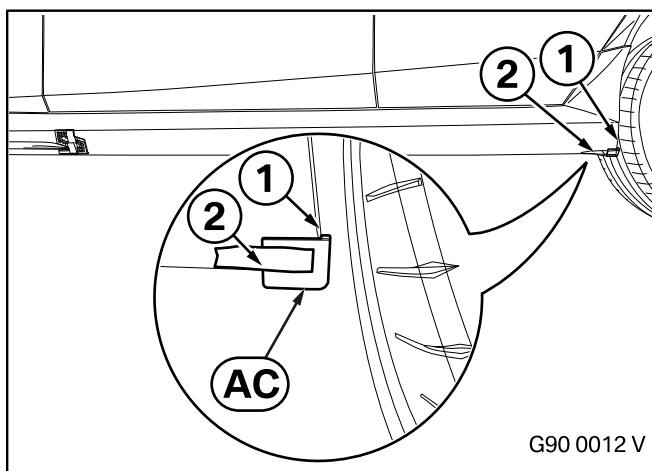
☐ The bonding surface (1) must be completely clean, dry and free from wax or grease.

Wait until the cleaner is fully dry. ◀

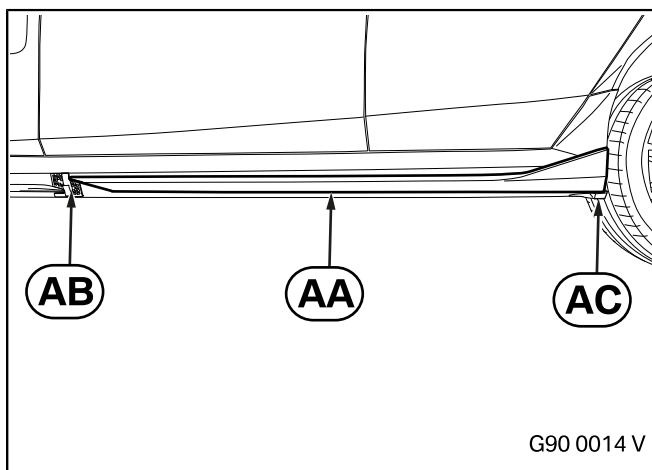
Clean the bonding surface (1) on the car with cleaner **AD**.



Position the front template **AB** on the contour (1) of the light carpet and secure it with suitable adhesive tape (2).

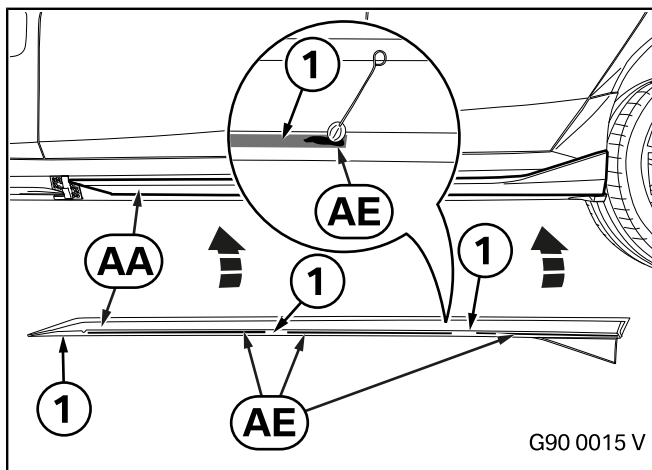


Position the rear template **AC** on the rear edge of the side skirt (1) and secure it with suitable adhesive tape (2).



Hold the carbon side skirt attachment **AA** against the car and check that it is positioned correctly between the front template **AB** and the rear template **AC**.

7. Installing the carbon side skirt attachment



☐ Carry out this work step with a second person. ◀

Abrade the surfaces (1) between the adhesive tape using suitable tools and clean them with the cleaner **AD**.

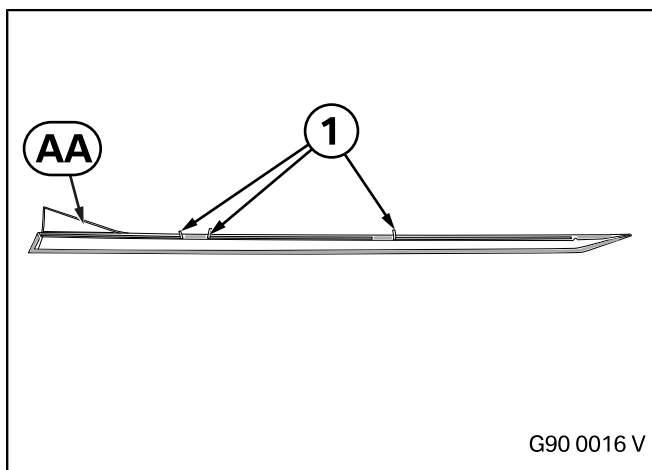
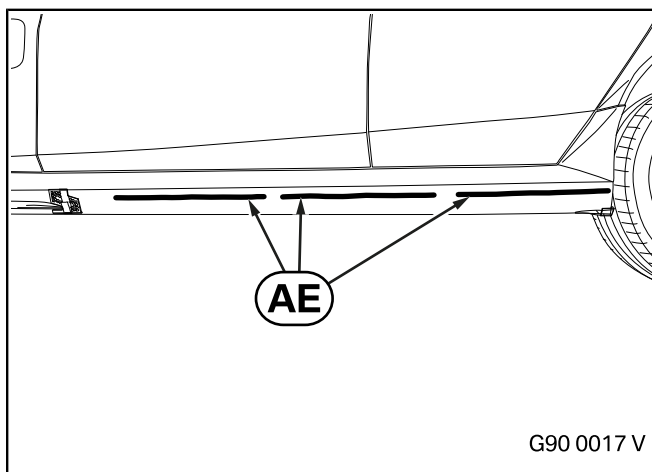
Apply primer **AE** to the backing films of the adhesive tape strips on the rear of the carbon side skirt attachment **AA**.

Hold the carbon side skirt attachment **AA** against the car and press its entire width against the car to mark the area that needs to be primed.

Then remove the carbon side skirt attachment **AA** again.

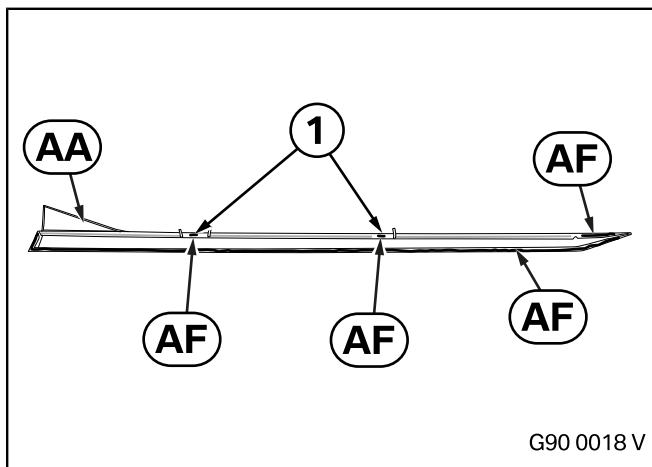
☐ Ensure that you do not apply any primer above the upper edge of the marked area. ◀

Trace the marked area with primer **AE** to create a thicker line of primer.

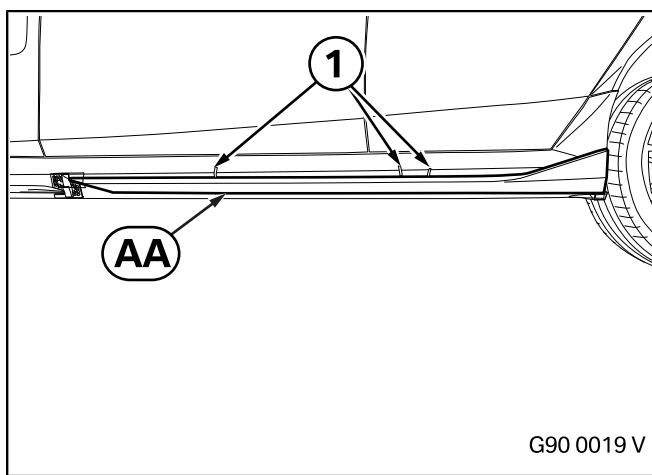


Partly remove the ends of the backing films (1) and then bend them outwards.

7. Installing the carbon side skirt attachment

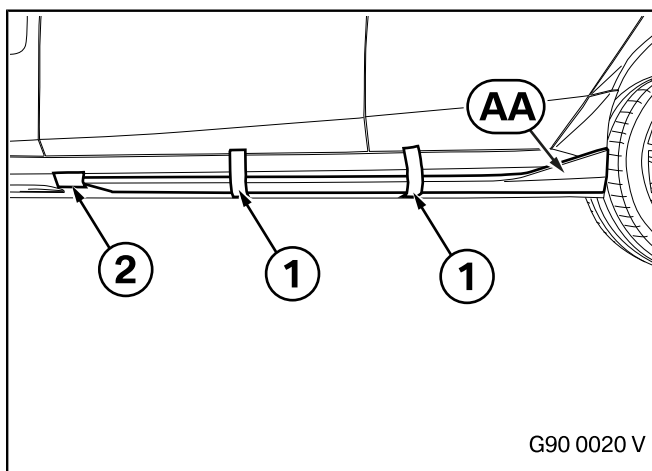


Apply the liquid adhesive **AF** in dots to the surfaces between the adhesive tape strips (1) on the rear of the carbon side skirt attachment **AA** that you cleaned earlier. Apply a bead of liquid adhesive **AF** to the remaining cleaned surfaces.



- ▶ Carry out this work step with a second person. Ensure that the ends of the backing films (1) are visible. ◀

Press the carbon side skirt attachment **AA** against the car in its installation position and pull out the ends of the backing films (1).



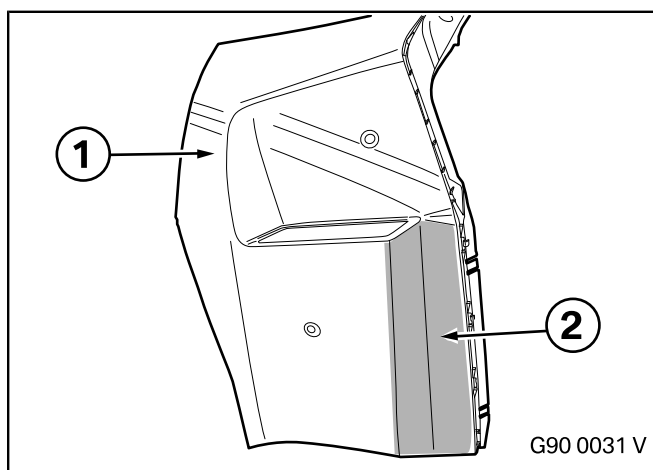
Secure the carbon side skirt attachment **AA** using suitable adhesive tape (1).

Remove the templates **AB** and **AC** and secure the front tip of the carbon side skirt attachment **AA** with additional adhesive tape (2).

- ▶ If necessary, remove any excess liquid adhesive immediately using suitable tools.

Leave the car to stand for **24 hours** before removing the adhesive tapes. Refer to the installation instructions on **page 2**. ◀

8. Carbon rear diffuser installation

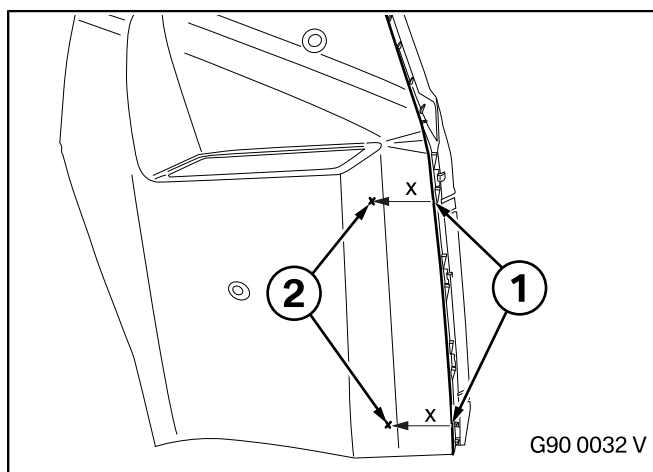


▷ Remove the rear trim panel (1) as described in ISTA/AIR.

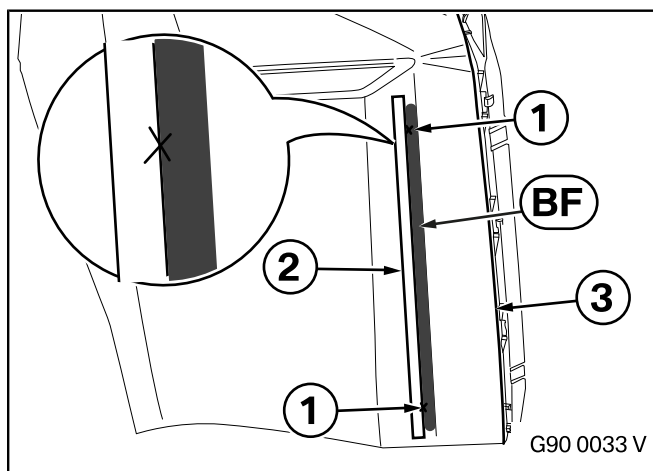
The bonding surfaces (2) must be completely dry, clean and free of wax or grease.

Wait until the cleaner is fully dry. ◀

Clean the bonding surface (2) of the rear trim panel (1) with the cleaner **BE**.



In the area between the first and the last clip channel, measure a distance of $x = 100 \text{ mm}$ from the edge of the rear trim panel (1) and apply a mark (2) at each end of the edge on the rear trim panel (1) using suitable equipment.

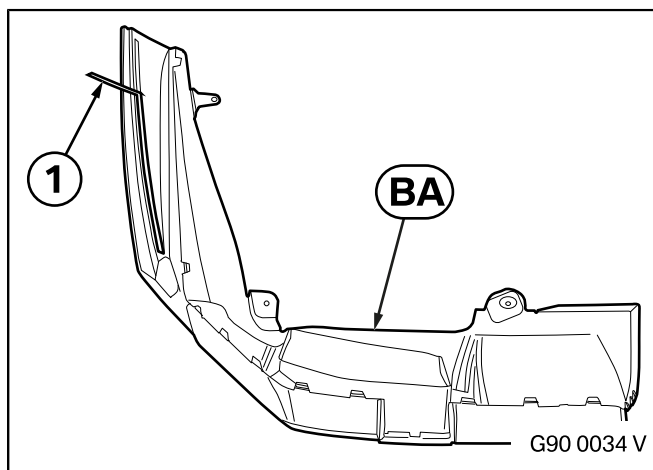


Between the two marks (1), apply adhesive tape (2) away from the edge (3). (In the magnified section to the left.)

Then prime a small surface area along the edge of the adhesive tape (2) toward the edge (3) using the primer **BF**. (In the magnified section to the right.)

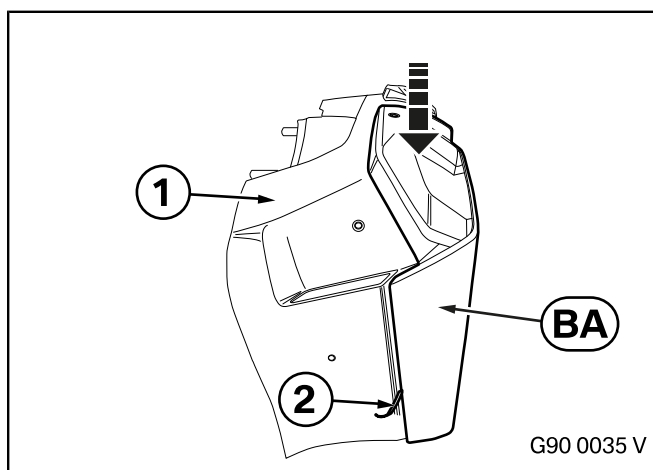
▷ Wait for the flash-off time of the primer **BF**. ◀

Remove the adhesive tape (2).



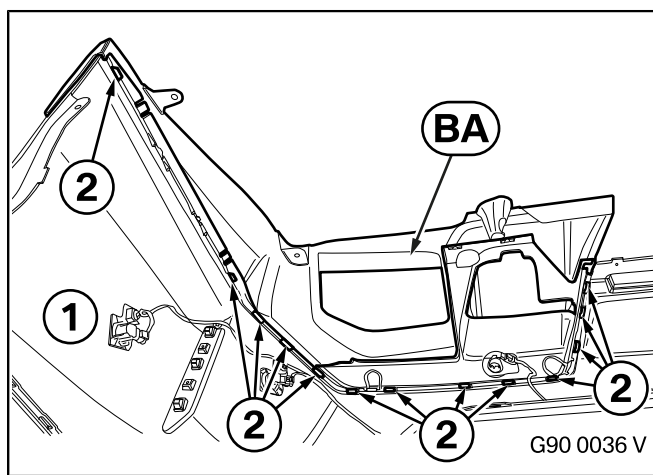
Partly remove the end of the backing film (1) of the adhesive tape of the left carbon rear diffuser **BA** and bend it outwards.

8. Carbon rear diffuser installation

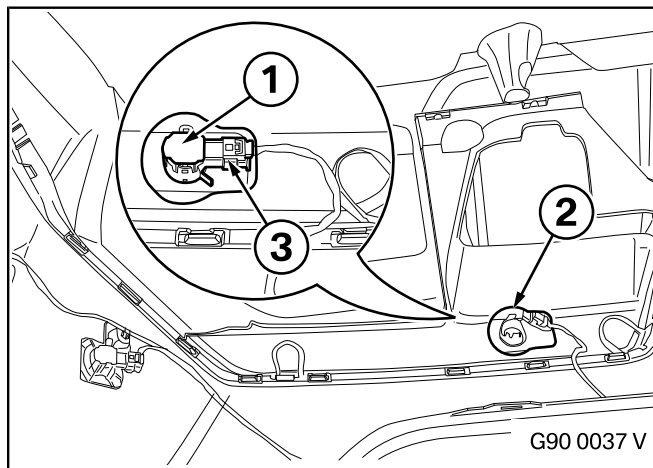


☐ Ensure that the backing film (1) of the adhesive tape is visible from the outside. ◀

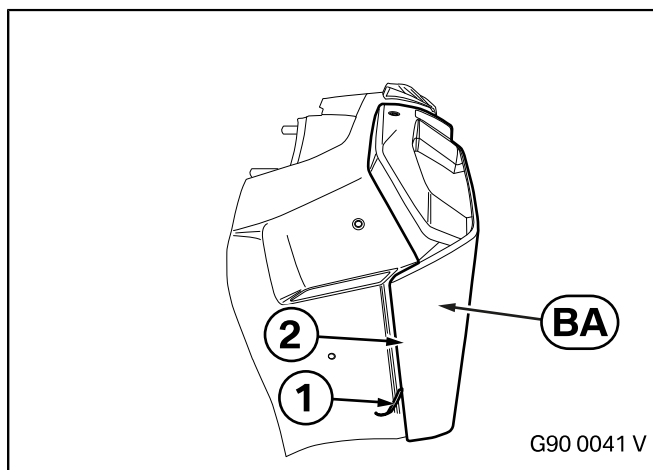
Slide the left carbon rear diffuser **BA** into the rear trim panel from above, until it reaches its installation position.



Check the clips (1) of the left carbon rear diffuser **BA** from the rear and, starting from the outside, clip them separately into the recesses of the rear trim panel (2).



Guide the PDC sensor (1) through the opening (2) of the rear trim panel from the outside, connect the connector (3) and clip the PDC sensor (1) into the diffuser.

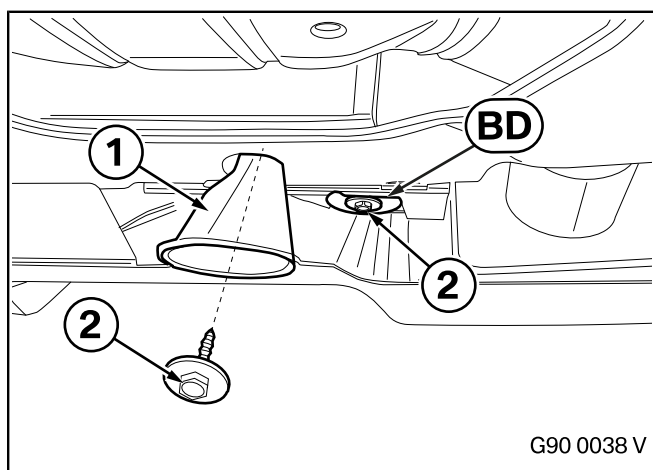


Pull out the backing film (1) and press the area (2) with adhesive tape of the left rear diffuser **BA** against the rear trim panel multiple times.

Proceed in the same way when installing the right rear diffuser **BB**.

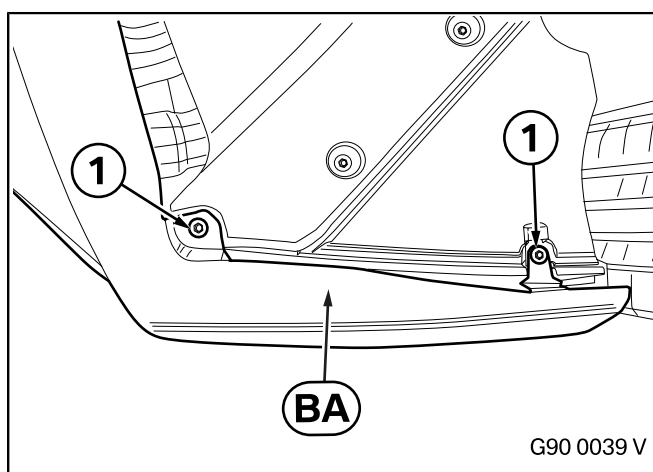
Then install the rear trim panel on the vehicle in accordance with ISTA/AIR.

8. Carbon rear diffuser installation

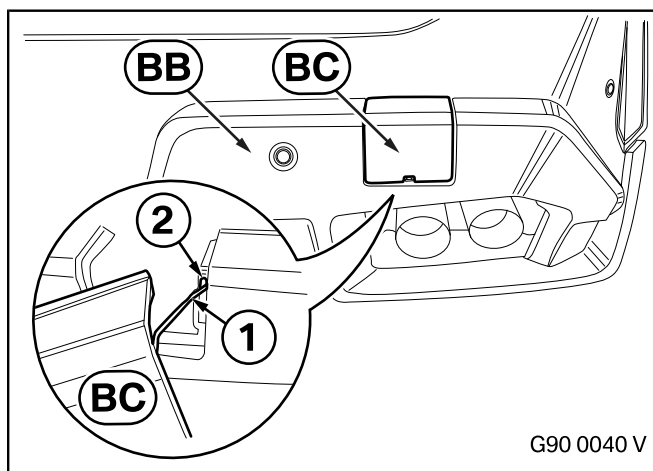


Insert an existing hexagon screw (2) through the opening in the funnel (1) and tighten it.

Next to it, screw another hexagon screw (2) in combination with the washer **BD** into the rear trim panel.



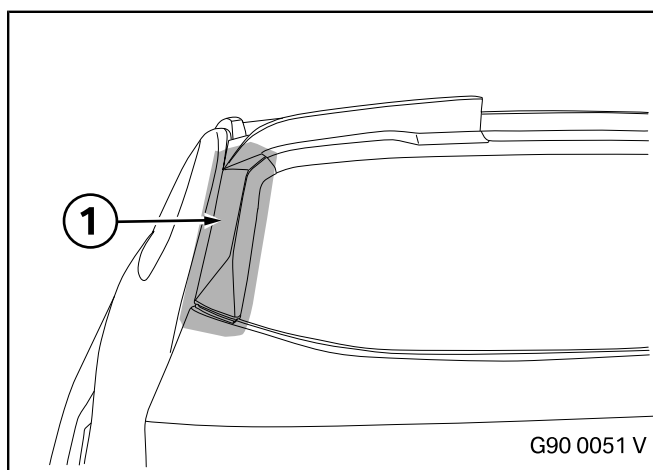
Use the two existing screws (1) from the underside to fasten the left carbon rear diffuser **BA**.



Insert the securing band (1) of the towing eyelet trim **BC** into the opening (2) of the right carbon rear diffuser **BB**, then clip in the towing eyelet trim **BC**.

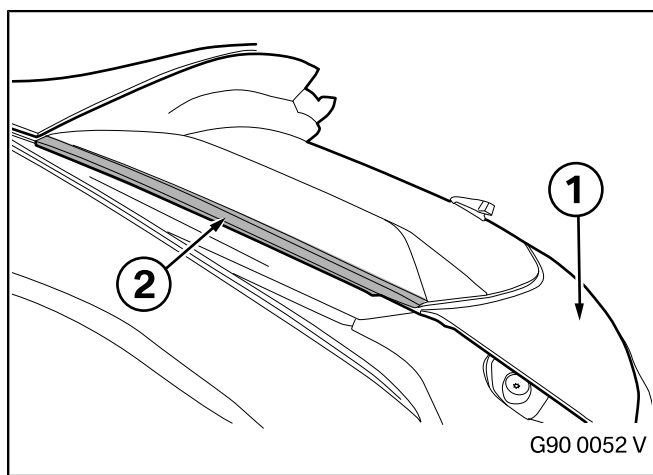
 Refer to the installation instructions on **page 2**. ◀

9. Carbon tail fin installation



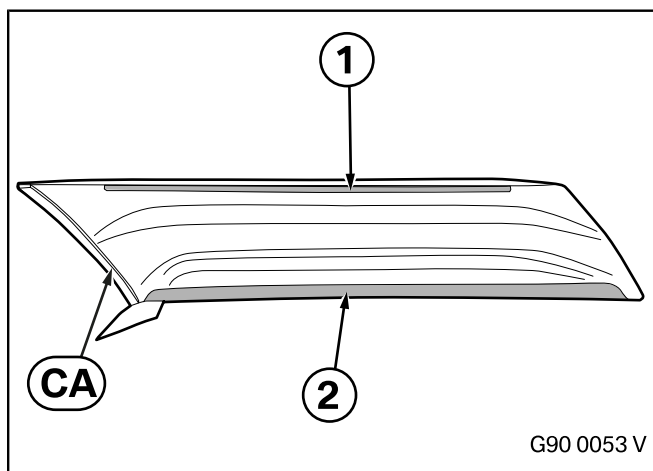
☐ The bonding surfaces (1) must be completely dry, clean and free of wax or grease. ◀

Clean the surface (1) of the standard tail fin with cleaner **CC**.



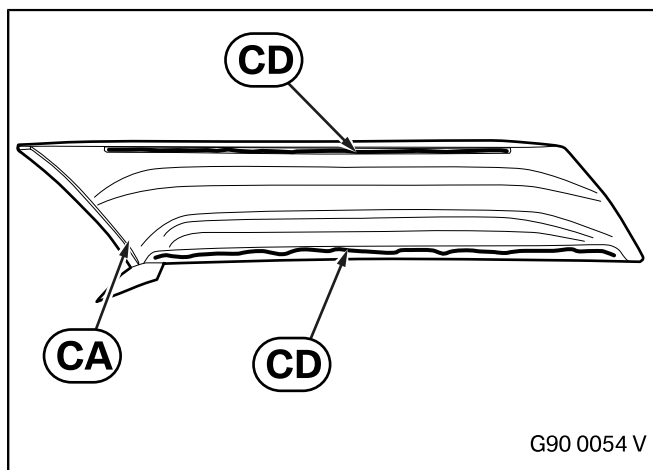
Open the tailgate (1) a little and also clean the concealed side area (2) of the standard tail fin with cleaner **CC**.

☐ Wait until the cleaner **CC** is fully dry. ◀



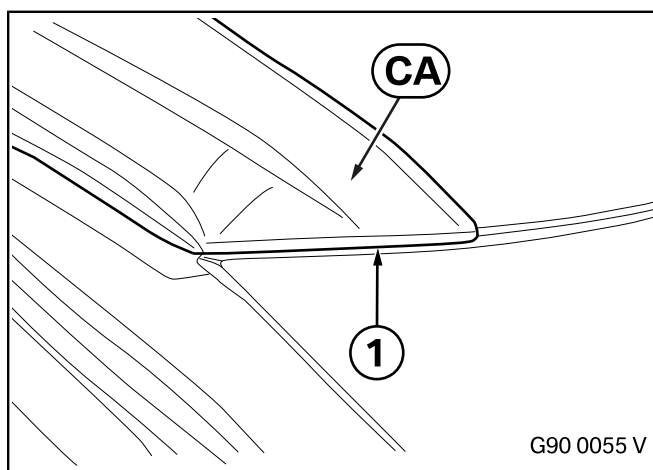
Abrade the two surfaces (1) and (2) on the inside of the left carbon tail fin **CA** using suitable tools and clean them with cleaner **CC**.

☐ Wait until the cleaner **CC** is fully dry. ◀

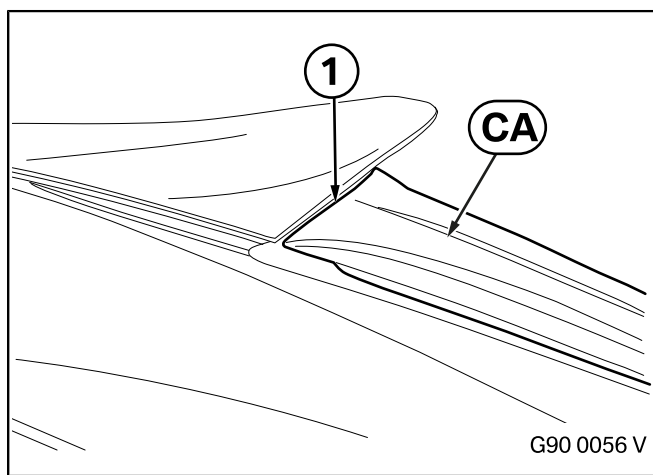


Apply a bead of liquid adhesive **CD** to the surfaces you have just cleaned.

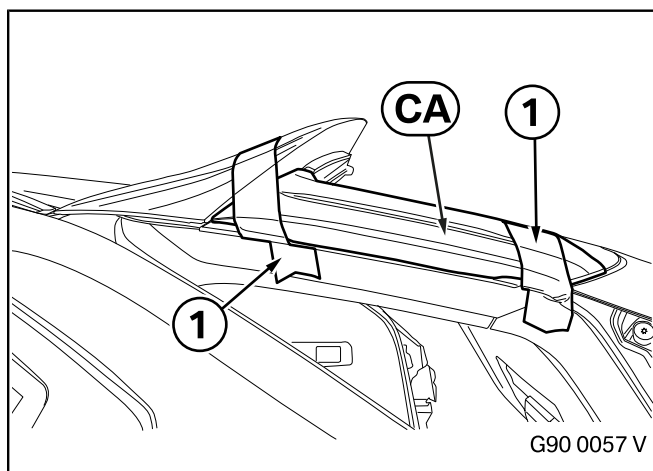
9. Carbon tail fin installation




Position the left carbon tail fin **CA** flush on the standard tail fin, starting from the bottom edge (1).



Check the position of the left carbon tail fin **CA** at the top end (1) and correct it if necessary.



Secure the left carbon tail fin **CA** at the top and bottom using suitable adhesive tape (1).

 Remove any excess liquid adhesive immediately using suitable tools.

Leave the car to stand for **24 hours** before removing the adhesive tapes. Refer to the installation instructions on **page 2**. ◀

10. Concluding work and coding

This system does not require coding.