

Original BMW Parts and Accessories. Installation Instructions.



M Performance Carbon Exterior Components Retrofit Kit.

BMW X5 (G05, G05 LCI)

BMW X5 M (F95, F95 LCI)

Retrofit kit number

Part number	Component designation	Type	Installation time (hours)
51 19 2 461 277	Rear carbon winglet, left	G05 and G05 LCI	0.25
51 19 2 461 278	Rear carbon winglet, right	G05 and G05 LCI	
51 19 2 455 499	Front carbon winglet, left	G05 and G05 LCI	0.25
51 19 2 455 500	Front carbon winglet, right	G05 and G05 LCI	
51 19 2 455 432	Carbon rear diffuser	G05	0.50
51 71 2 467 261	Carbon front ornamental grille	F95	0.25
51 71 2 467 262	Carbon front ornamental grille	G05	0.25
51 19 2 464 331	Black high gloss throughflow rear spoiler	G05	0.25
51 19 2 471 124	Black high gloss throughflow rear spoiler	F95	0.25
51 19 5 A4D EF9	Carbon left front attachment	G05 LCI	0.5
51 19 5 A4D EF8	Carbon right front attachment	G05 LCI	0.5
51 11 5 A56 350	Carbon MPA* right brake air duct trim	G05 LCI	0.25
51 11 5 A3E 056	Carbon MSP** right brake air duct trim	G05 LCI	0.25
51 11 5 A3E 055	Carbon left brake air duct trim	G05 LCI	0.25
51 13 5 A3E 058	Carbon right side panel finisher	G05 LCI	0.25
51 13 5 A3E 057	Carbon left side panel finisher	G05 LCI	0.25

* MPA = M Performance Automobiles

** MSP = M Sport package

Installation time

Installation time, see table. These times may vary depending on the condition of the car and the equipment in it.

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 cars 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 function problems, restrict troubleshooting to approx. 0.5 hours for mechanical work and 1.0 hours for electrical work.

To avoid unnecessary extra work and/or costs, please 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/cm^2 and 50 N/cm^2 .
- 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 $v_{\max} < 100 \text{ km/h}$ 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 full reaction time of the primer/adhesive. 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.

 **The carbon air inlet trim must be installed first, then the carbon front attachment.**

If the carbon front attachment is installed first, the carbon air inlet trim CANNOT be installed afterwards. 

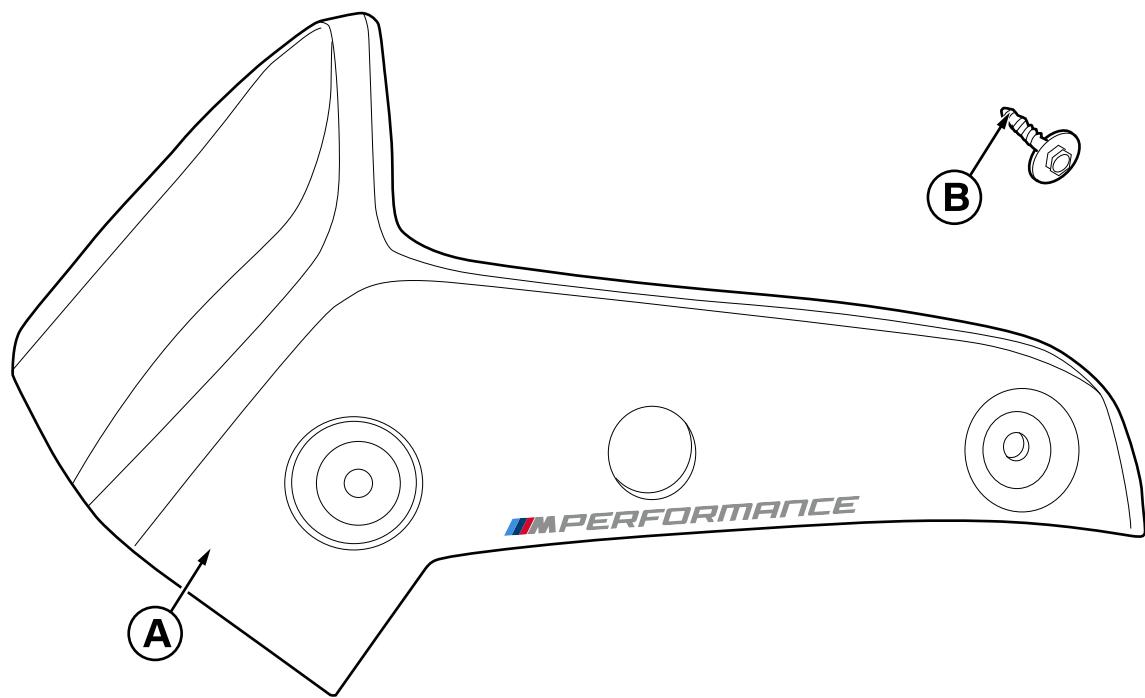
Special tools required

Special tool 00 9 327 (dismantling tool)

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1. Front carbon winglet parts list

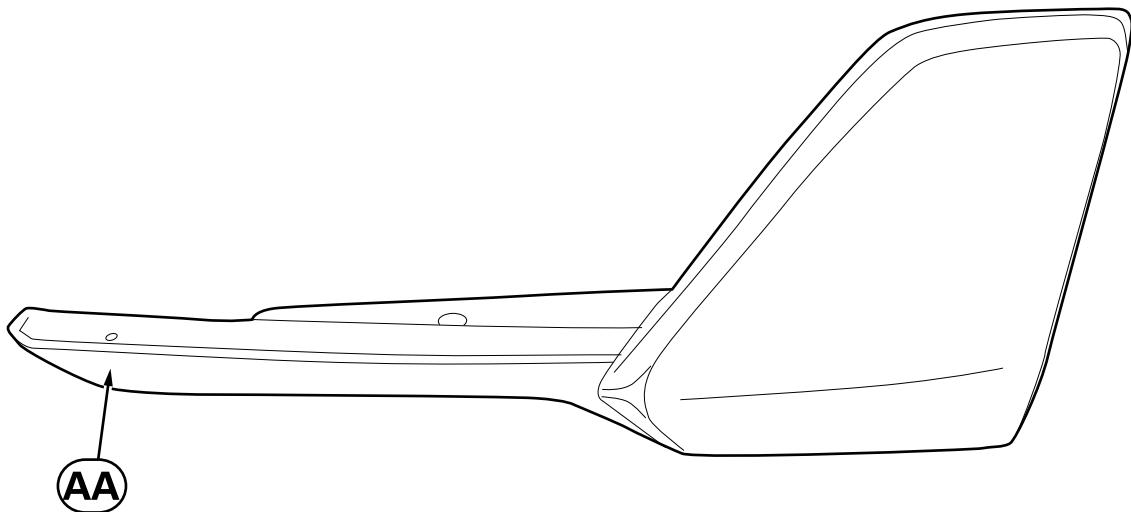


G05 0025 V

Legend

- A** Front carbon winglet, left/right (illustration shows left)
- B** Screws (4x)

2. Rear carbon winglet parts list

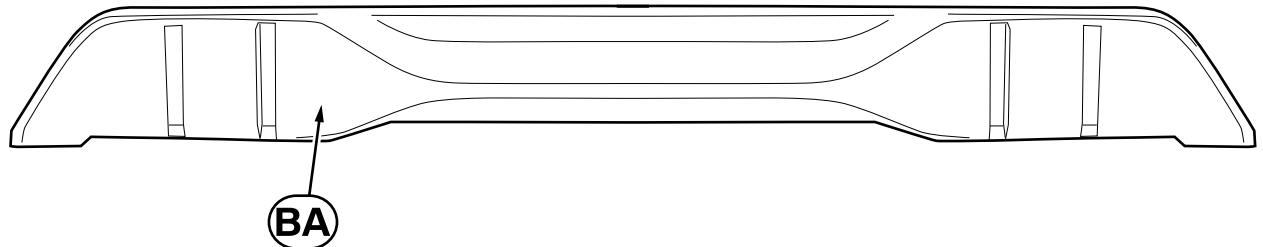


G05 0034 V

Legend

AA Rear carbon winglet, left/right (illustration shows left)

3. Carbon rear diffuser parts list

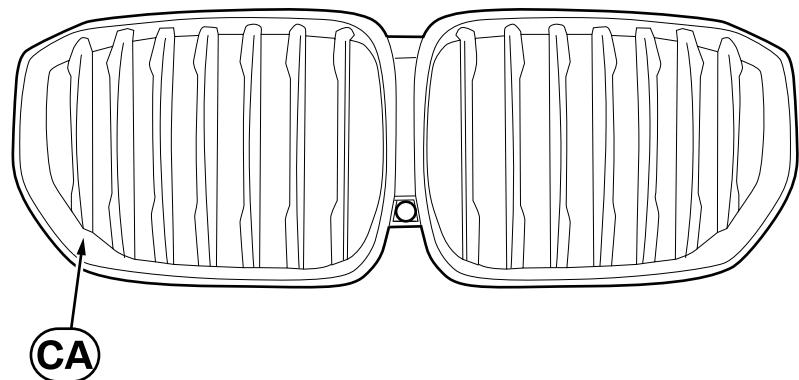


G05 0042 V

Legend

BA Carbon rear diffuser

4. Carbon front ornamental grille parts list

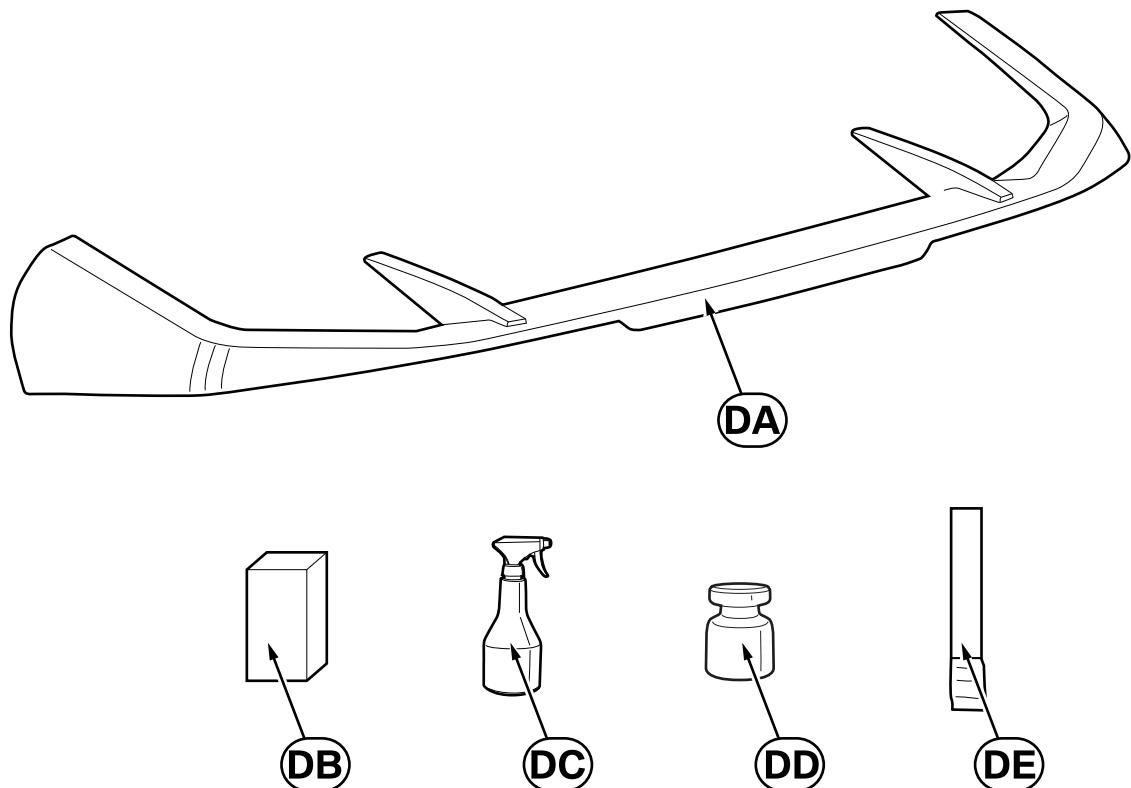


G05 0049 V

Legend

CA Carbon front ornamental grille (figure shows G05)

5. Black high gloss throughflow rear spoiler parts list

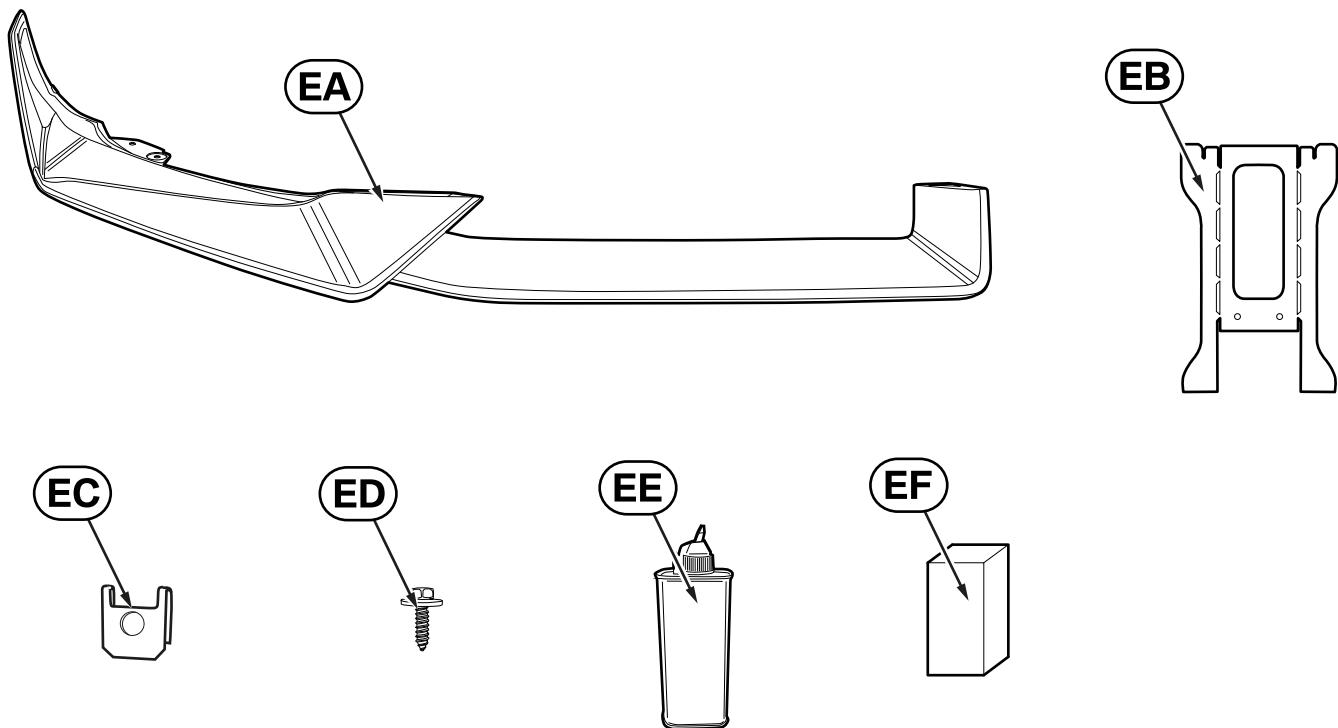


G05 0061 V

Legend

- DA** Throughflow rear spoiler
- DB** Liquid adhesive (not included in kit, see EPC for details)
- DC** Cleaner (not included in kit, see EPC for details)
- DD** Primer (not included in kit, see EPC for details)
- DE** Pull-off strip (16 x)

6. Carbon front attachment parts list

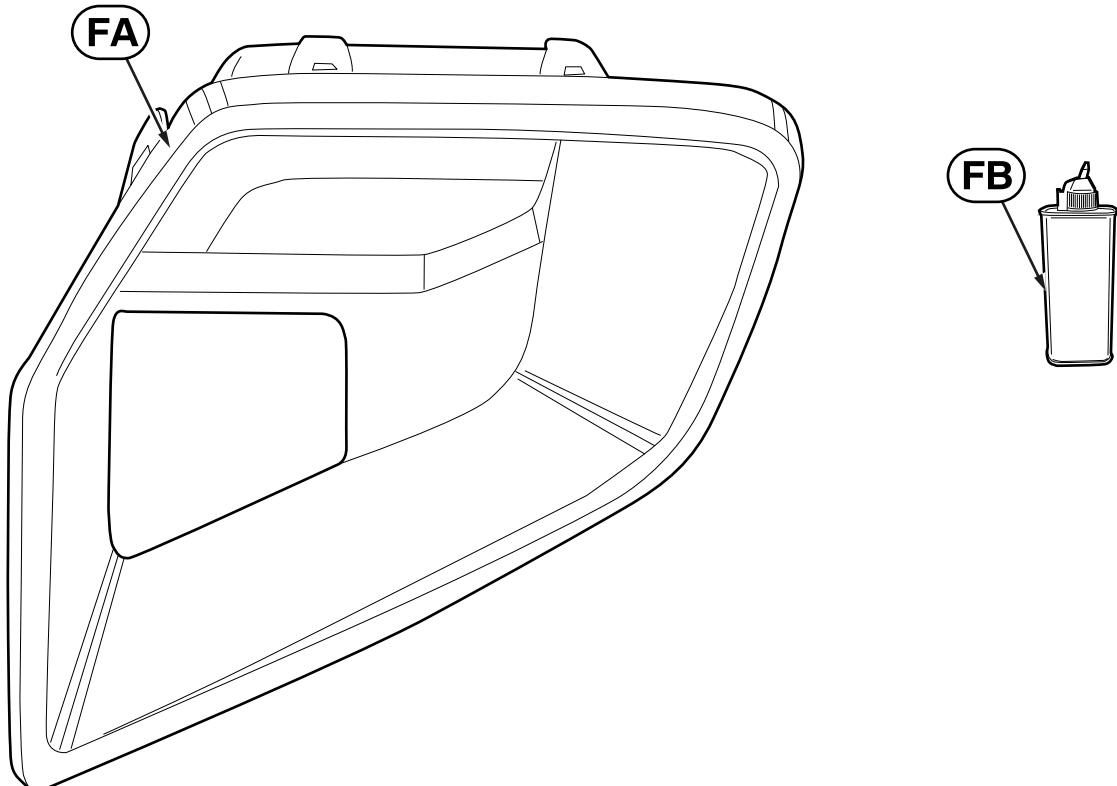


G05 0070 V

Legend

- EA** Carbon front attachment, left/right (right side shown)
- EB** Drilling template
- EC** Clip (2 x)
- ED** Screw (2 x)
- EE** Cleaner (not included in kit, see EPC for details)
- EF** Liquid adhesive (not included in kit, see EPC for details)

7. Carbon air inlet trim parts list

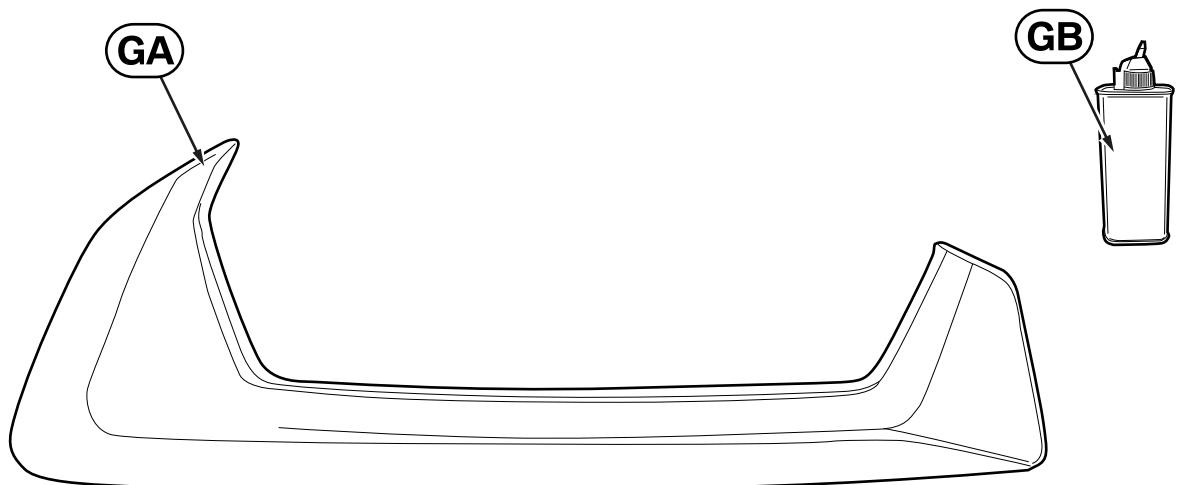


G05 0090 V

Legend

FA Carbon air inlet trim, left/right (left side shown)
FB Cleaner (not included in kit, see EPC for details)

8. Carbon side ornamental grille parts list



G05 0100 V

Legend

GA Carbon side ornamental grille, left/right (left side shown)

GB Cleaner (not included in kit, see EPC for details)

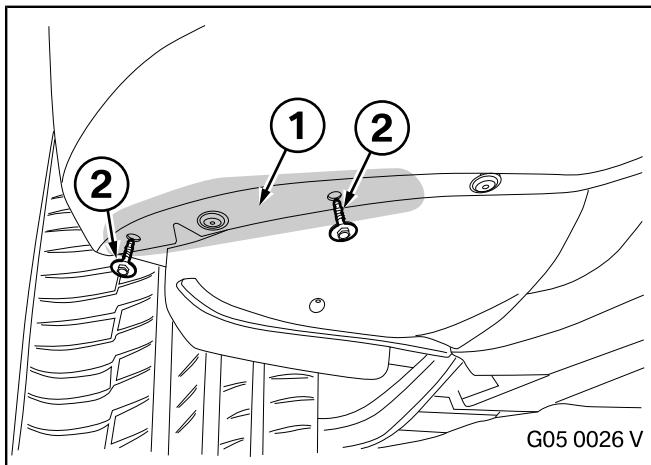
9. Preparatory work

The following components must be removed first of all

None

ISTA/AIR No.

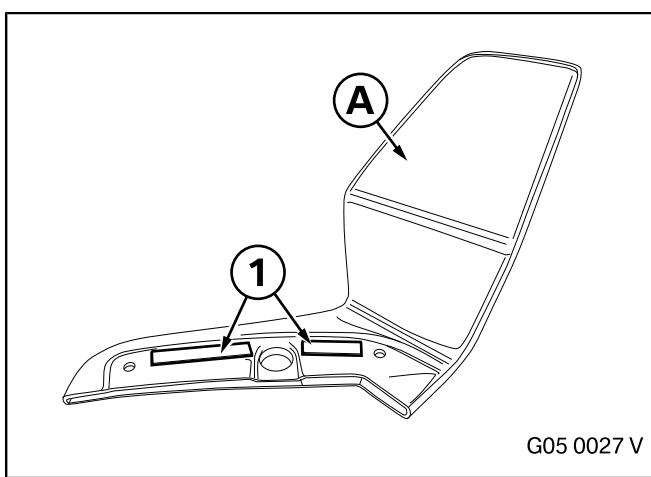
10. Front carbon winglet installation



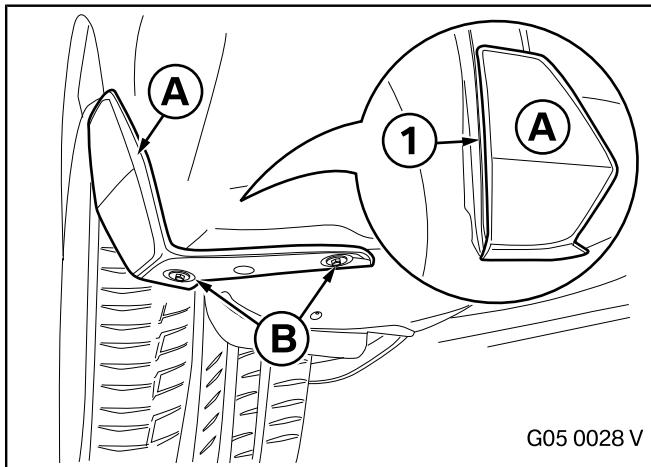
► The bonding surfaces must be completely dry, clean, and free from wax or grease. ◀

Clean the surface (1).

Remove the two screws (2).

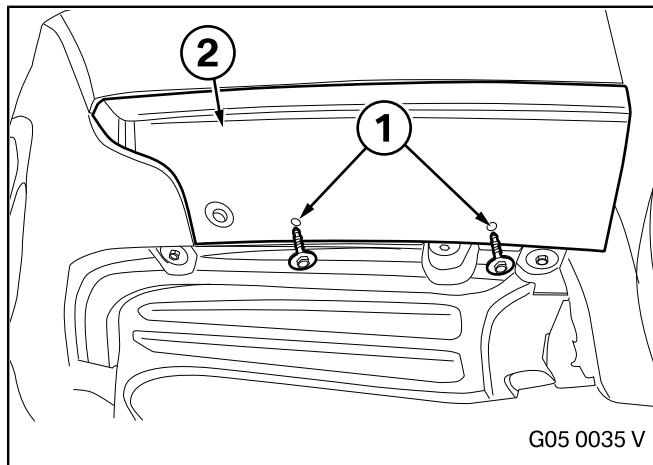


Remove the backing foils (1) from the adhesive tapes on the inside of the front carbon winglet **A**.



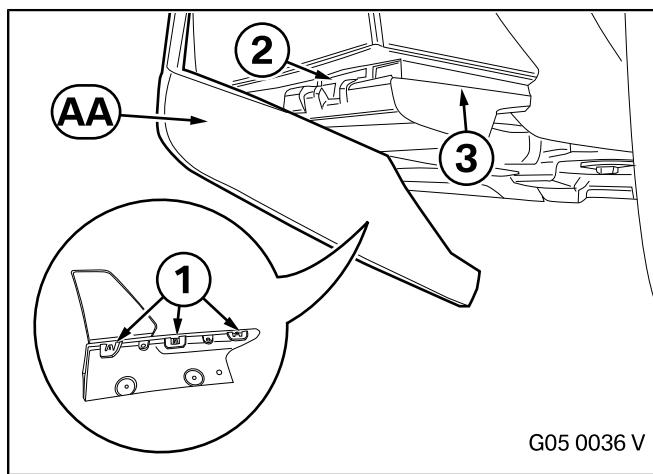
Position the front carbon winglet **A** flush with the edge of the wheel arch (1) and secure it with the two screws **B**.

11. Rear carbon winglet installation

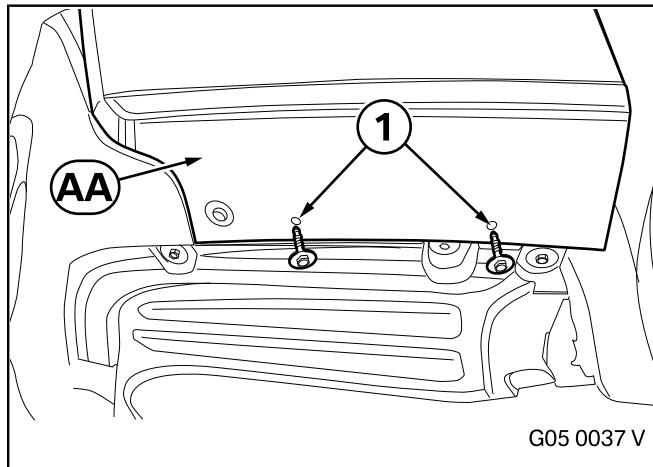


Remove the two screws (1) and keep them safe. They will be reused.

Remove the trim (2).

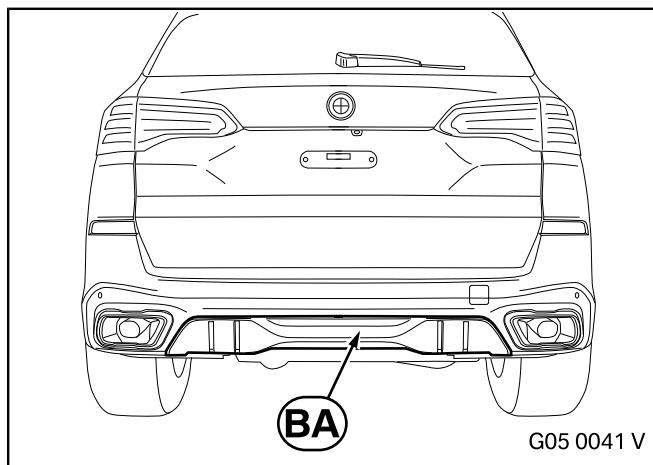


Position the rear carbon winglet **AA**. Ensure that the lugs (1) engage in the recesses (2). The rear carbon winglet **AA** must engage flush in the edge (3).



Secure the rear carbon winglet **AA** using the existing screws (1).

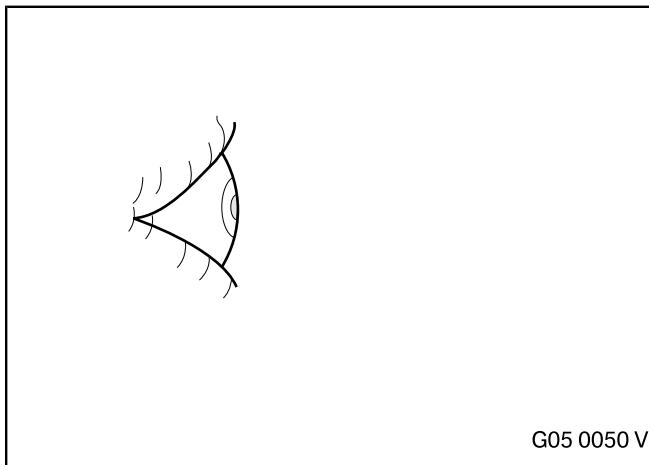
12. Carbon rear diffuser installation



Remove standard rear diffuser as described in **ISTA/AIR**.

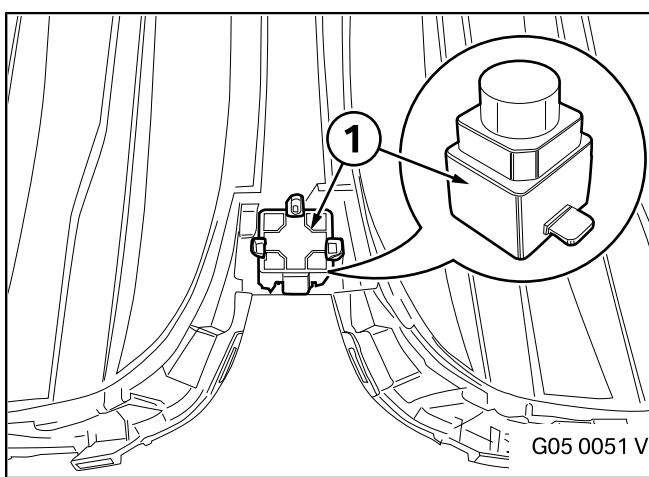
Install the carbon rear diffuser **BA** in the same way as the standard component, as described in **ISTA/AIR**.

13. Carbon front ornamental grille installation



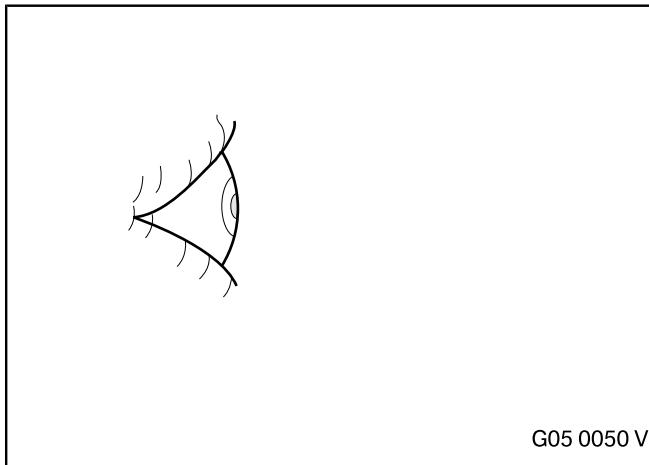
For all cars

Remove the front ornamental grille as described in **ISTA/AIR No. 51 13 000**.



Only for cars without SA 5DN (Park Assist Plus system)

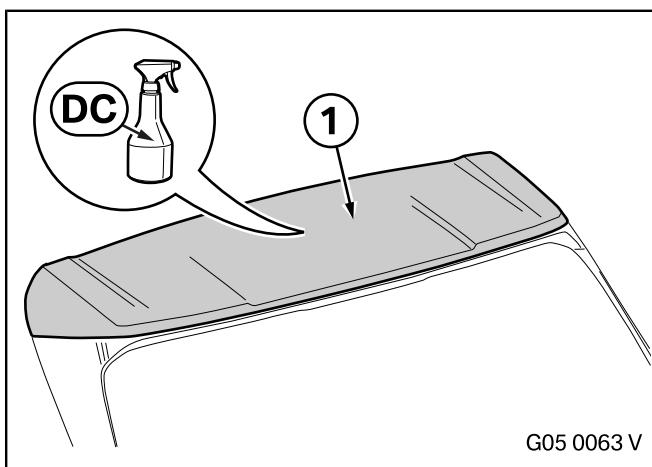
Unclip the ICAM stopper (1) from the front ornamental grille and clip it into the carbon front ornamental grille **CA**.



For all cars

Adjust the carbon front ornamental grille **CA** as described in **ISTA/AIR No. 51 13 000**.

14. Black high gloss throughflow rear spoiler installation



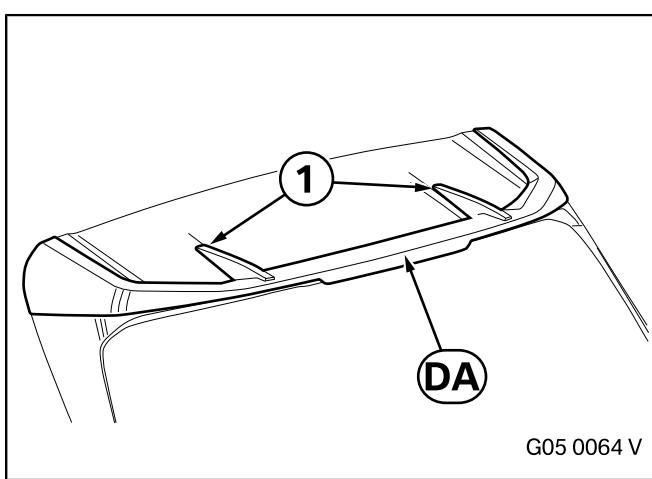
For F95 cars

Remove the roof edge spoiler (1) as described in **ISTA/AIR**.

For all cars

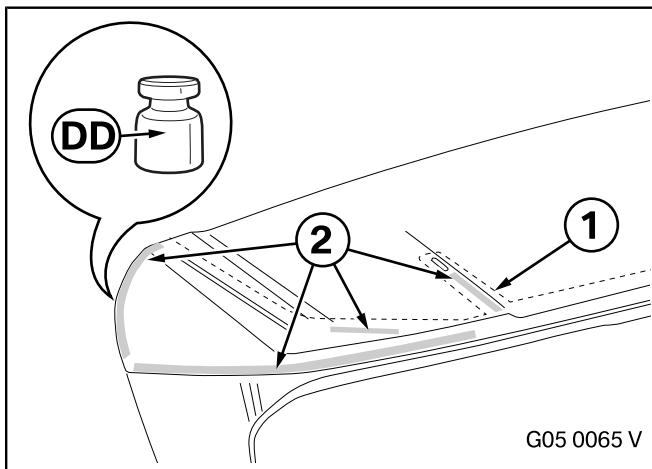
► The bonding surface must be completely clean, dry and free from grease. ◀

Clean the bonding surface on the roof edge spoiler (1) with cleaner **DC**.



Place the throughflow rear spoiler **DA** on the roof edge spoiler and mark the contours (1) on the roof edge spoiler using suitable tools.

Remove the throughflow rear spoiler **DA** again.

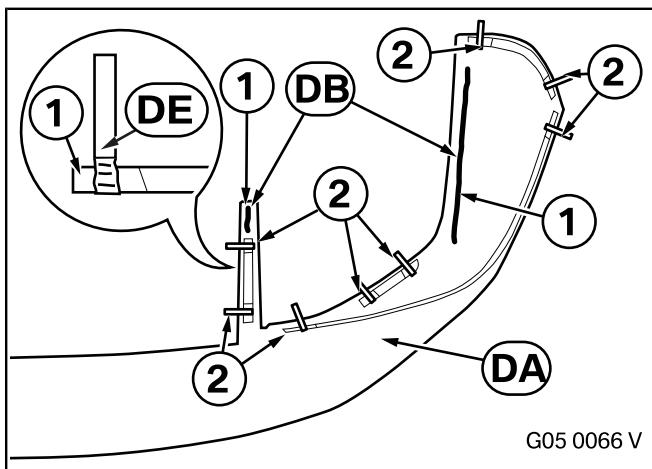


Prime the surfaces (2) inside the contours (1) using primer **DD** as shown.

Repeat the process on the opposite side.

► Wait until the drying time has elapsed. ◀

14. Black high gloss throughflow rear spoiler installation



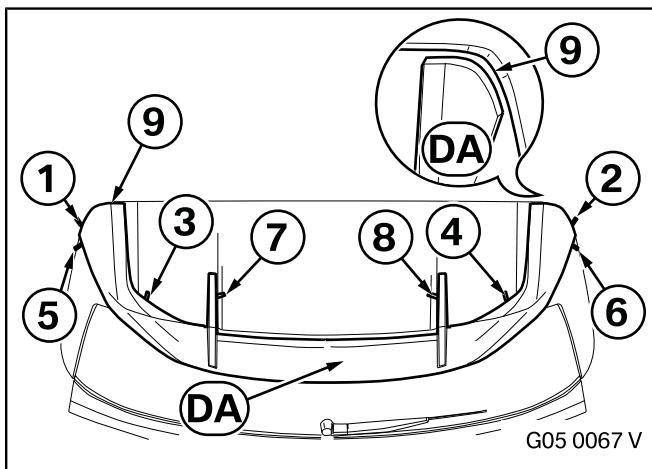
► The bonding surface must be completely clean, dry and free from grease. ◀

Abrade the bonding surfaces (1) for the liquid adhesive on the throughflow rear spoiler **DA** and clean them with cleaner **DC**.

Bend the ends of the backing film (2) on the adhesive tape to the outside. Place the pull-off strips **DE** on both ends around the backing film and pull them together like a sling. The pull-off strips ensure that the backing films can be removed more easily so that nothing tears.

Apply the liquid adhesive **DB** as shown to the bonding surfaces (1) on the underside of the throughflow rear spoiler **DA**.

Repeat this process on the opposite side.



► The ends of the backing films (1) to (8) must be visible.

Position the throughflow rear spoiler **DA** with the help of another person.

The radii (9) of the roof edge spoiler and the throughflow rear spoiler **DA** at the adhesive tapes (1) and (2) must line up perfectly. ◀

Guide the throughflow rear spoiler **DA** from the rear on to the car so that the liquid adhesive on it does not yet touch the car. Check the radii (9) at the adhesive tapes (1) and (2) in the final position and ensure that they line up. Then lower both sides of the throughflow rear spoiler **DA** and press it firmly onto the roof edge spoiler.

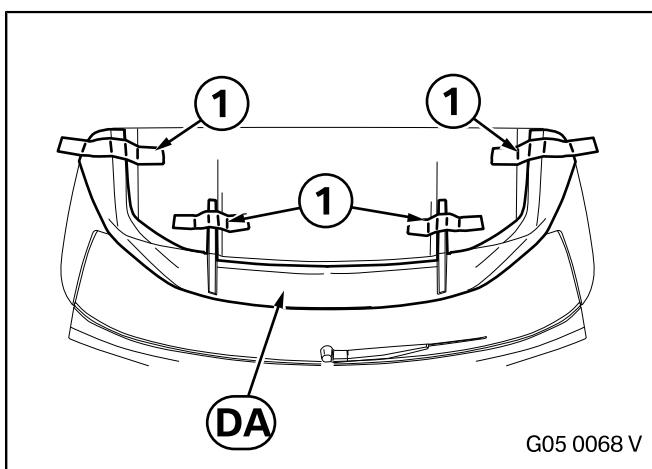
Release the backing films on the adhesive strips using the pull-off strips **DE** in sequence from (1) to (8) and push the throughflow rear spoiler **DA** firmly into position.

Secure the throughflow rear spoiler **DA** at several points using suitable adhesive tape (1).

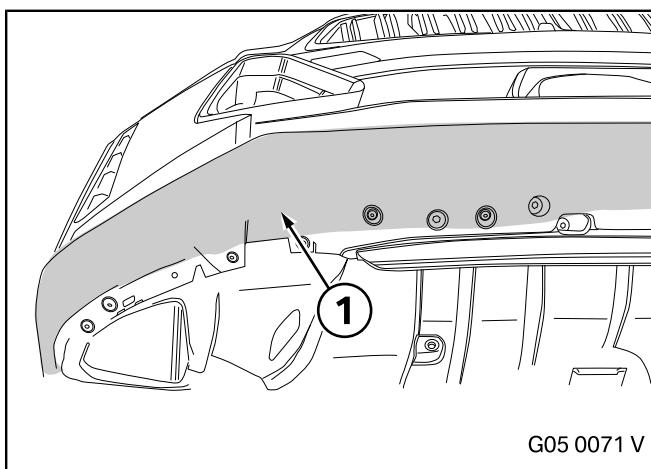
► Remove any excess liquid adhesive immediately using suitable equipment.

Refer to the installation instructions on page 2.

Do not remove the adhesive tapes for at least 6 hours. ◀



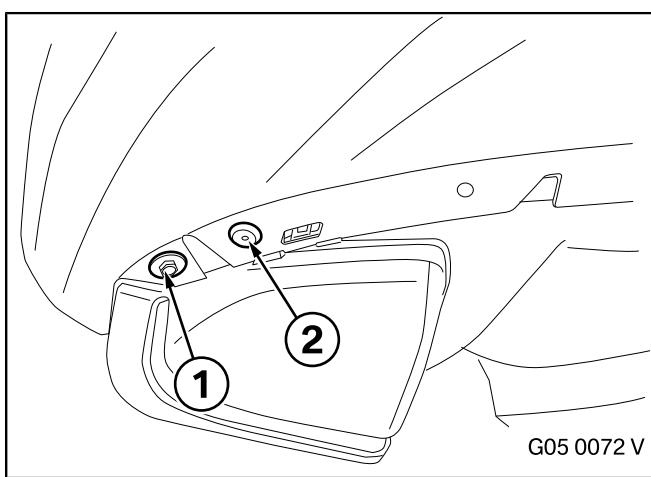
15. Carbon front attachment installation



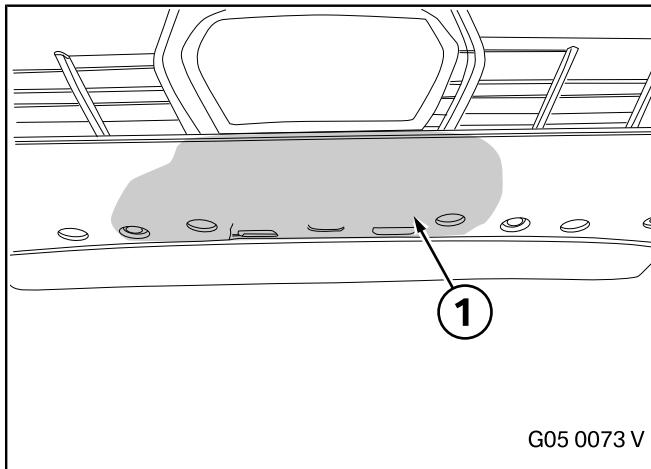
► The bonding surface must be completely clean and free from dust, wax and grease. ◀

Clean the bonding areas (1) on the front apron using cleaner **EE**.

► Wait until the cleaner is fully dry. ◀



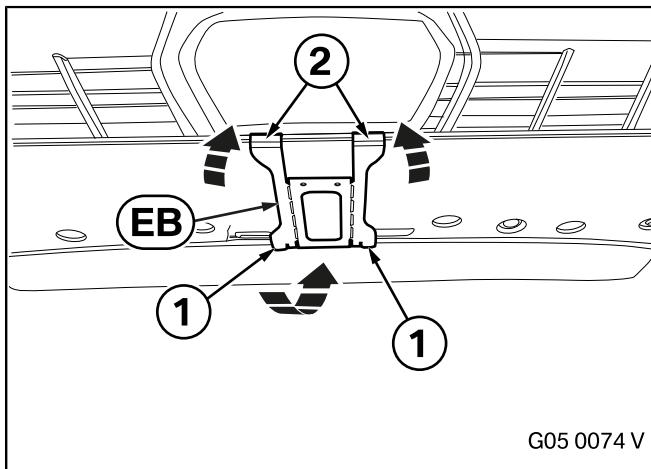
Remove the screw (1) and the blind rivet (2) on the side of the front apron. Keep the screw (1), it will be reused later. The blind rivet (2) must be replaced.



► The bonding surface must be completely clean and free from dust, wax and grease. ◀

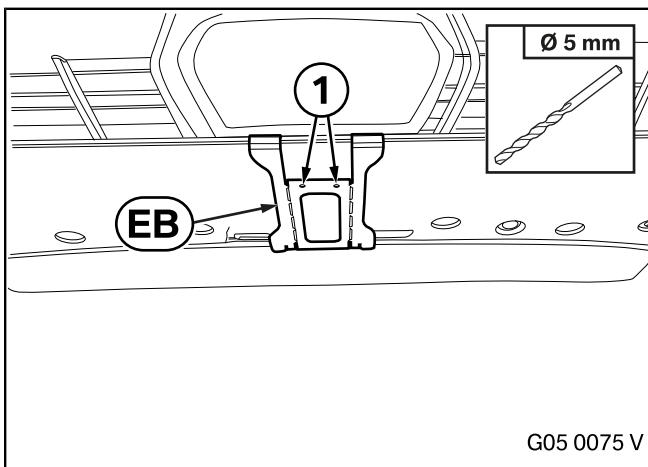
Clean the bonding areas (1) on the front apron using cleaner **EE**.

► Wait until the cleaner is fully dry. ◀



Insert the drilling template **EB** into the recesses (1) in the front apron and clip the rounded edges (2) of the drilling template **EB** to the rounded edge of the front apron towards the top.

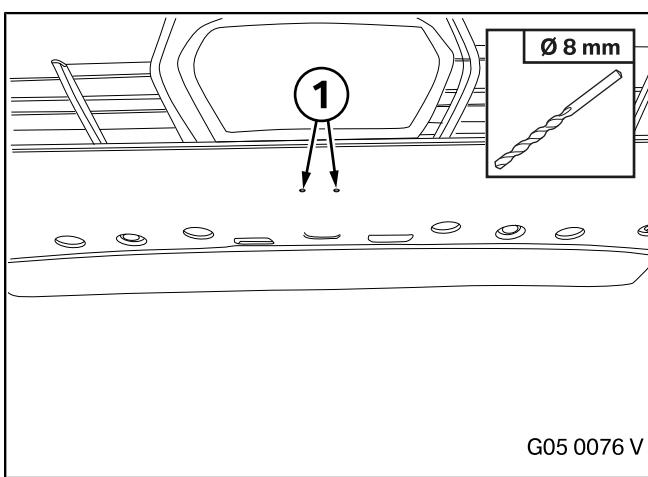
15. Carbon front attachment installation



► Check the package space behind the hole. Maximum drilling depth **10 mm**. ◀

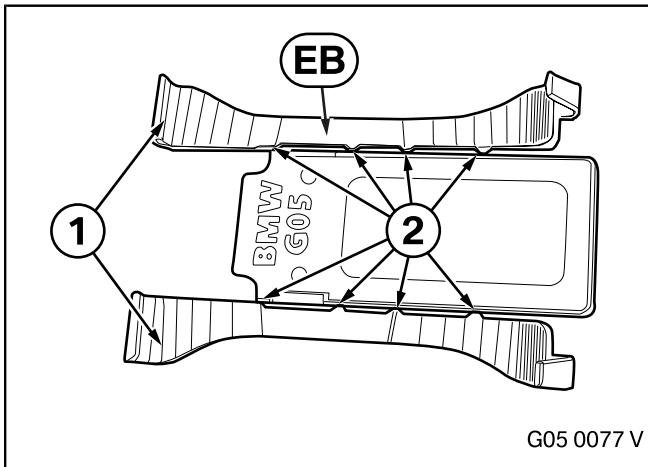
Drill a **5 mm** hole in the front apron through each of the two holes (1) in the drilling template **EB**.

Remove the drilling template **EB**.

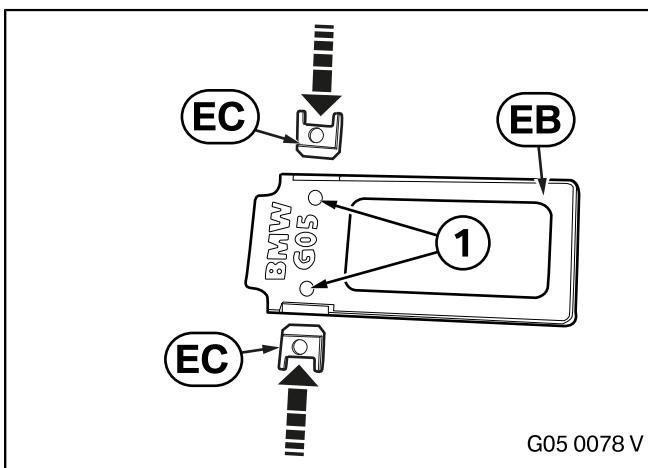


► Check the package space behind the hole. Maximum drilling depth **10 mm**. ◀

Enlarge the two holes (1) to **8 mm**.



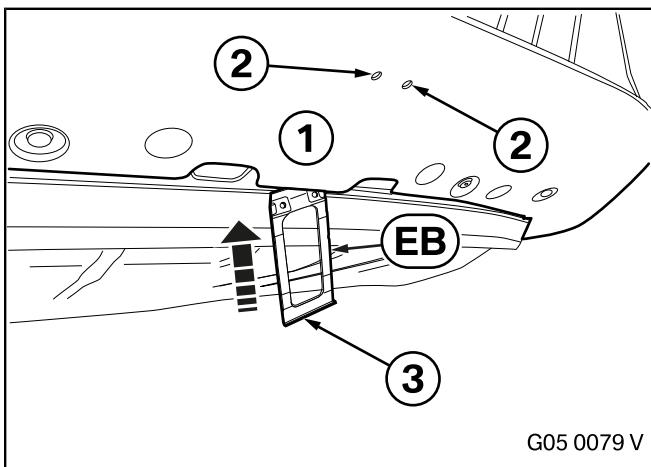
Break off the two external lugs (1) on the drilling template **EB** at the perforation (2).



► Check the installation direction during the installation process. The smooth surface of the clips **EC** must be connected to the smooth surface of the drilling template **EB**. ◀

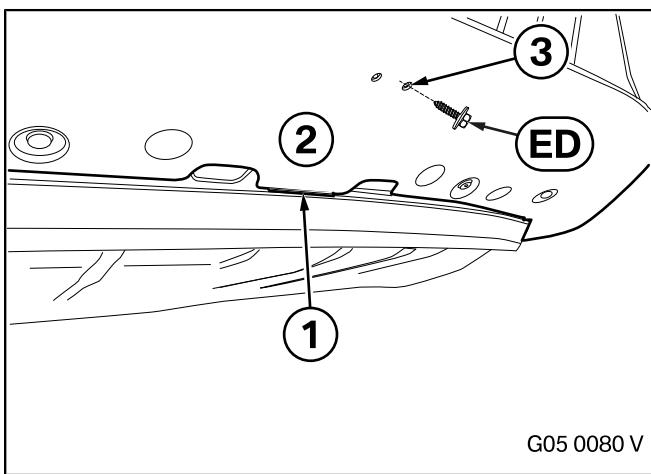
Slide the clips **EC** as shown over the holes (1) onto the drilling template **EB**.

15. Carbon front attachment installation



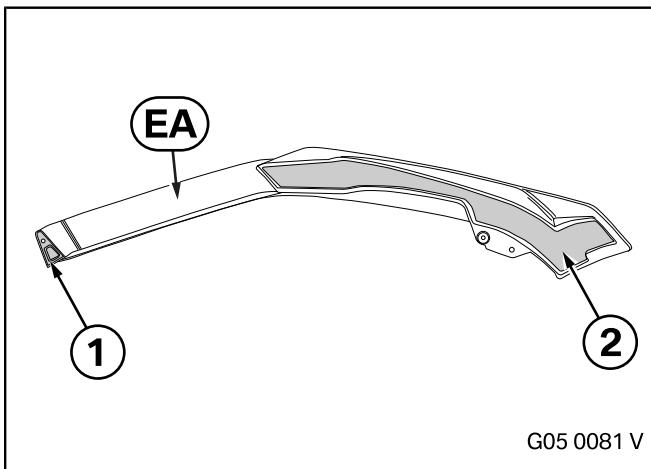
G05 0079 V

Slide the drilling template **EB** with the clips at the front from underneath under the front apron (1). Position it so that the holes line up with the holes (2) in the front apron (1) and the edge (3) of the drilling template **EB** is flush at the bottom on the edge.



G05 0080 V

To secure the drilling template **EB**, hold the bottom edge (1) flush on the edge of the front apron (2) and insert the screw **ED** into the right-hand hole (3).



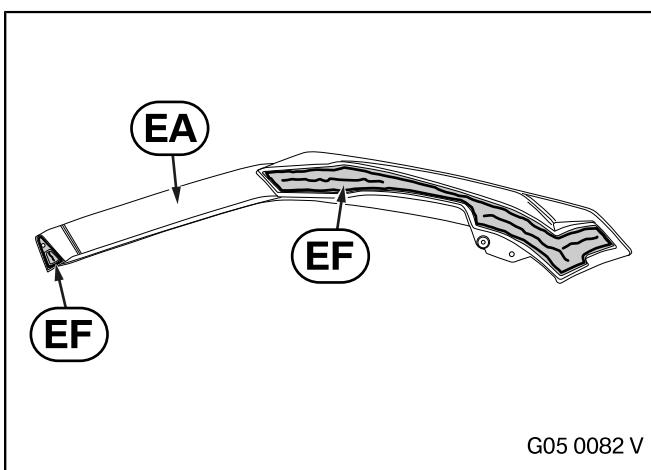
G05 0081 V

► The bonding surfaces must be completely clean and free from dust, wax and grease. ◀

Roughen the surface (1) and (2) on the rear of the carbon front attachment **EA** using suitable equipment.

Clean the surface (1) and (2) with cleaner **EE**.

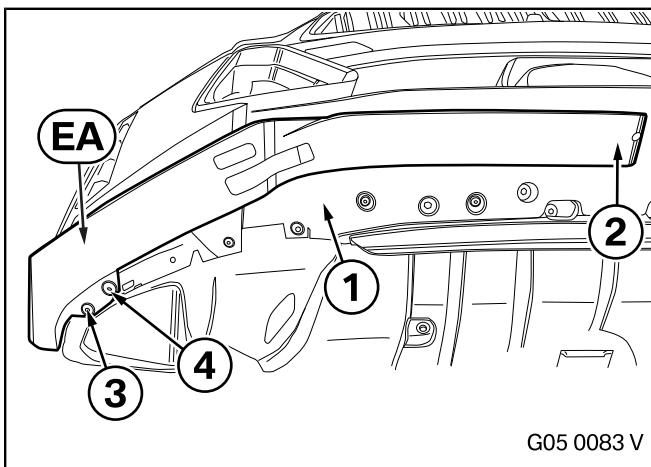
► Wait until the cleaner is fully dry. ◀



G05 0082 V

Apply a bead of liquid adhesive **EF** as shown on both surfaces of the carbon front attachment **EA**.

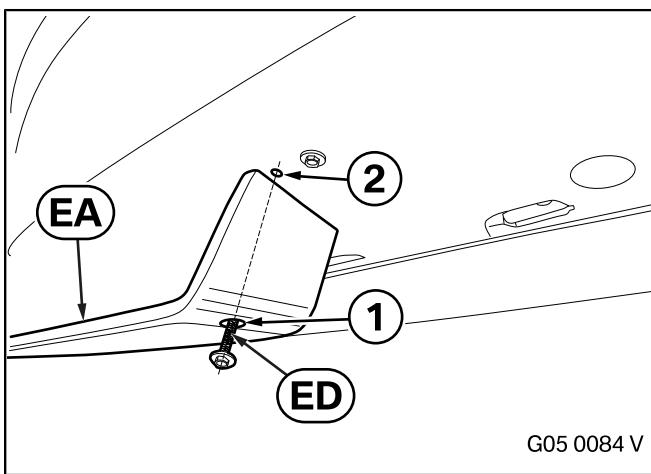
15. Carbon front attachment installation



► This step should be completed with the assistance of another person. ◀

Position the carbon front attachment **EA** on the outside of the front apron (1) whilst the second person holds the other end (2) of the carbon front attachment **EA** away from the standard apron in the centre of the car.

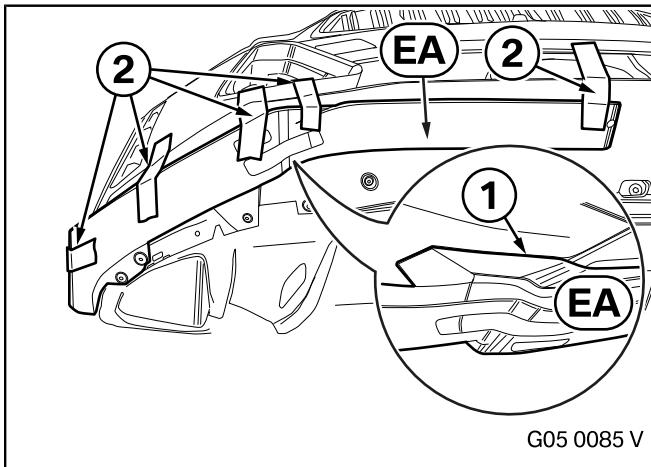
Insert the existing screw (3) loosely. Place a new blind rivet (4) into the hole.



Insert the screw **ED** through the opening (1) in the carbon front attachment **EA** into the hole (2) and tighten it.

Then tighten the screw you inserted previously and push the blind rivet fully into place.

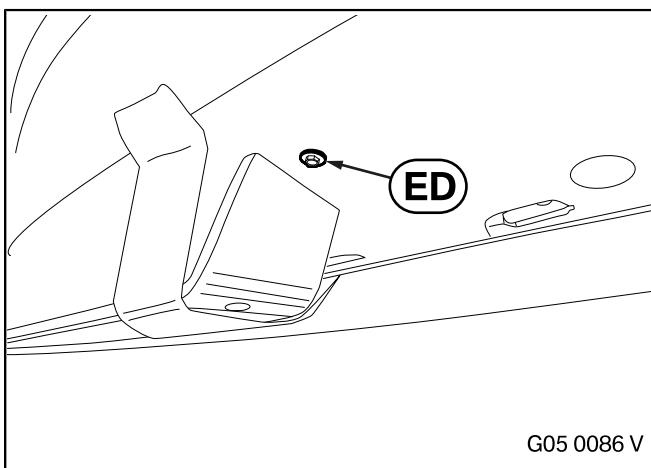
► Remove any excess liquid adhesive immediately using suitable tools. ◀



Check the gap (1) between the carbon front attachment **EA** and the front apron from the inside. Close the gap (1) by pressing the two together multiple times.

Secure the carbon front attachment **EA** in position using suitable adhesive tapes (2) and pieces of foam if necessary. Use the pieces of foam in places where you wish to increase the contact pressure.

Then carry out a visual inspection and correct the gap again if necessary.

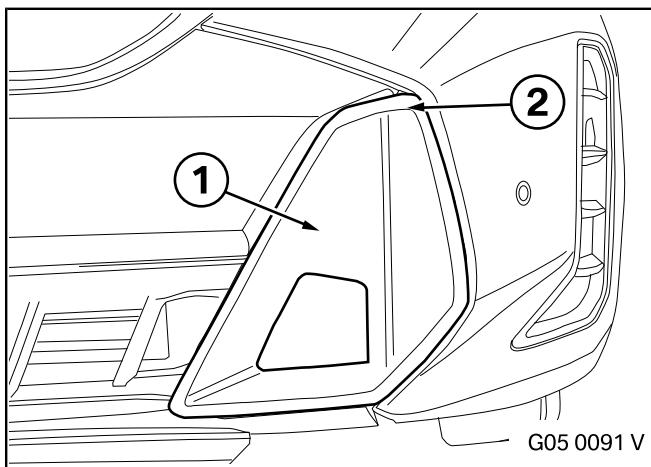


Remove the right-hand screw **ED**.

► Repeat the installation process on the opposite side of the car.

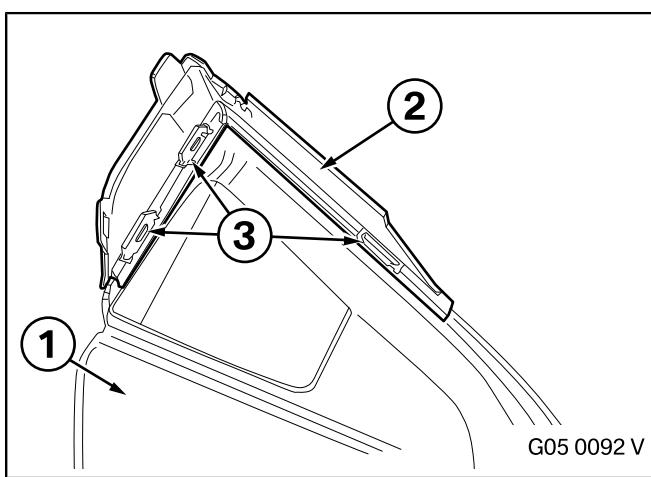
Leave the car to stand for **24 hours** before removing the adhesive tape and refer to the installation instructions on **page 2**. ◀

16. Carbon air inlet trim installation

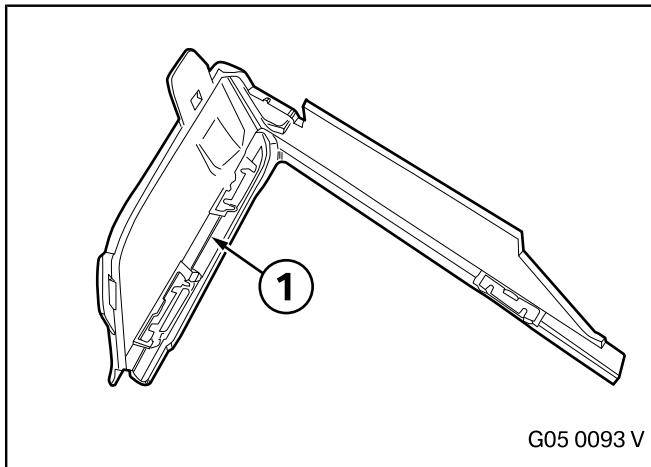


Unclip the standard air inlet trim (1) with suitable tools.

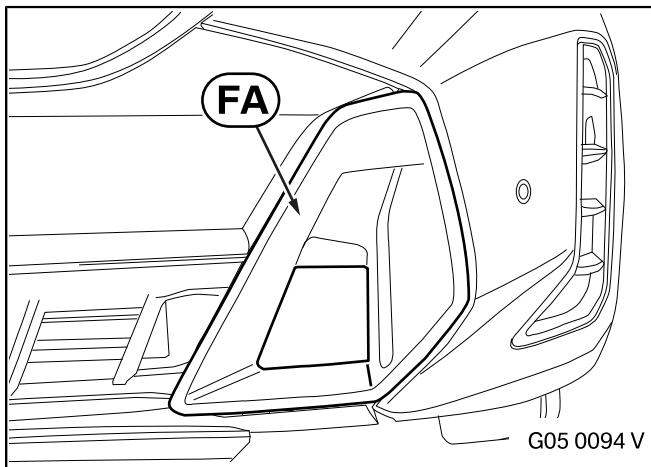
It is best to start at the top corner (2).



There is an intermediate section (2) clipped to the reverse of the standard air inlet trim (1). Bend the three lugs (3) and remove the intermediate section (2).



Clip the intermediate section (1) to the carbon air inlet trim **FA**.

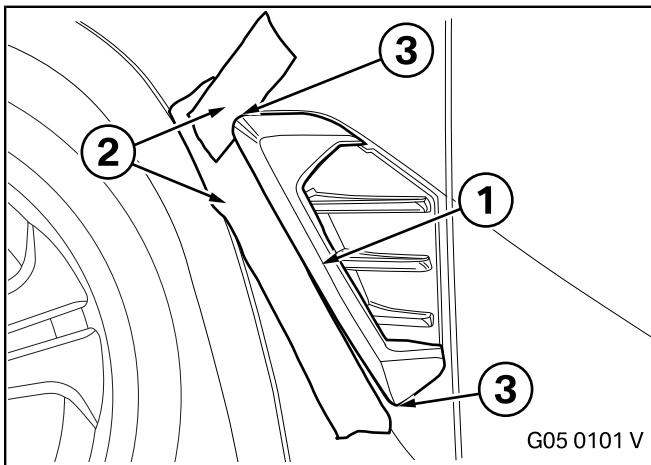


► The carbon air inlet trim **FA** must audibly clip in to place. ◀

Position the carbon air inlet trim **FA** from the front and clip it into place. Check that it is secure.

► Repeat the installation process on the opposite side of the car. ◀

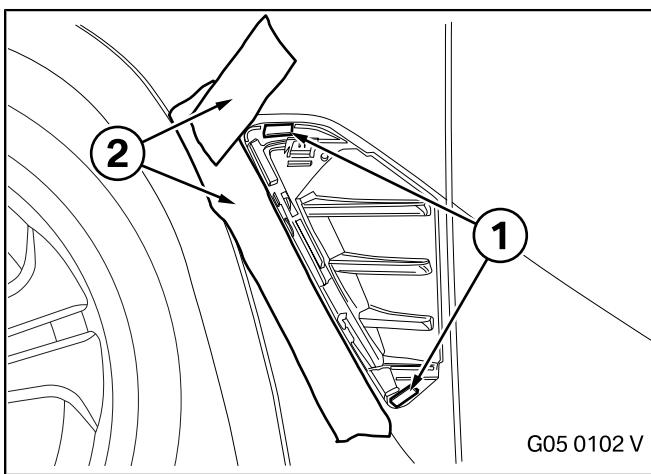
17. Carbon side ornamental grille installation



Protect the paintwork around the side ornamental grille (1) with suitable adhesive tape (2).

Unclip the standard side ornamental grille (1) with suitable tools.

It is best to start at the top and bottom corners (3).

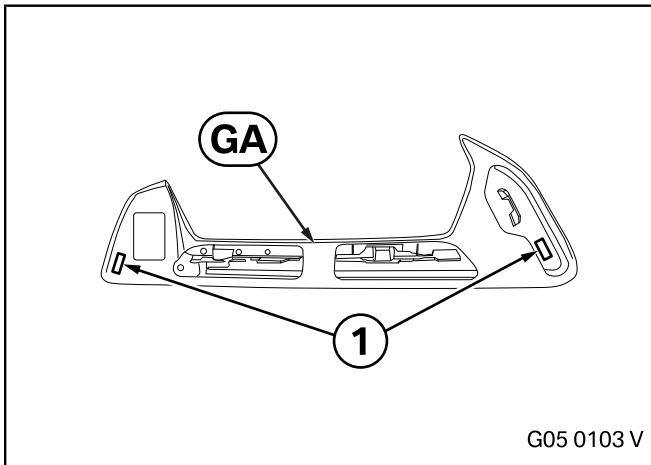


Remove the adhesive tape residue (1) with suitable tools.

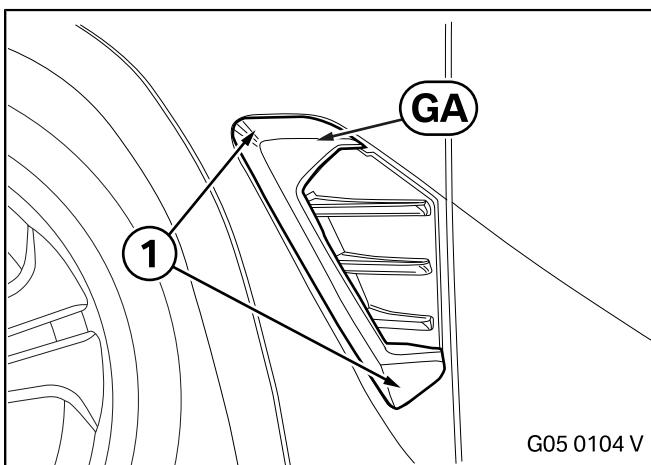
Remove the adhesive tapes (2).

Then clean the areas with cleaner **GB**.

► Wait until the cleaner is fully dry. ◀



Completely remove the backing foils (1) on the reverse of the side ornamental grille **GA**.



► The side ornamental grille **GA** must audibly clip into place. ◀

Clip in the side ornamental grille **GA** and press the adhesive tape into position at the places shown (1).

Repeat the installation process on the opposite side of the car.

18. Concluding work and coding

The retrofit system requires programming/coding for all cars if the carbon rear diffuser retrofit kit **BA** is installed.

- Connect the battery
- Connect the battery charger to the car
- Connect the car to the ISTA workshop system
- Open the ISTA/P car programming facility
- If using ISTA/P, please refer to the instructions provided in the ISTA/P application documentation
- Customer service word retrofit for carbon rear diffuser **BA**: Select 'DSMO' via the – **Retrofits** – path and work through the action plan
- If necessary, carry out a vehicle test using the ISTA system, and note, or work through, any errors that have been recorded
- Conduct a function test
- Re-assemble the car
- Give the customer the customer information