

Original BMW Parts and Accessories.

Installation Instructions.



Aramid Antenna Cover Retrofit Kit.

BMW models (see table)

Retrofit kit number

Part number Designation	Valid for the following models
65 20 5 A59 AB3	F40, F95, F96, F97, F97N, F98, F98N, G01, G02, G05, G06, G07, G08, G08E, G21, G22, G31 and G82
65 20 5 A59 AB5	F44, F90, F90N, G11, G11N, G12, G12N, G20, G28, G30, G30N, G42, G80 and G87
65 20 5 A59 AB7	G26, G45, G46, G48, G61, G97, G98, i20, U06, U10, U11 and U12

Installation time

The installation time is **approx. 0.5 hours**. This may vary depending on the condition of the vehicle and the equipment in it.

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 functional 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 warning 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.
- 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 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.

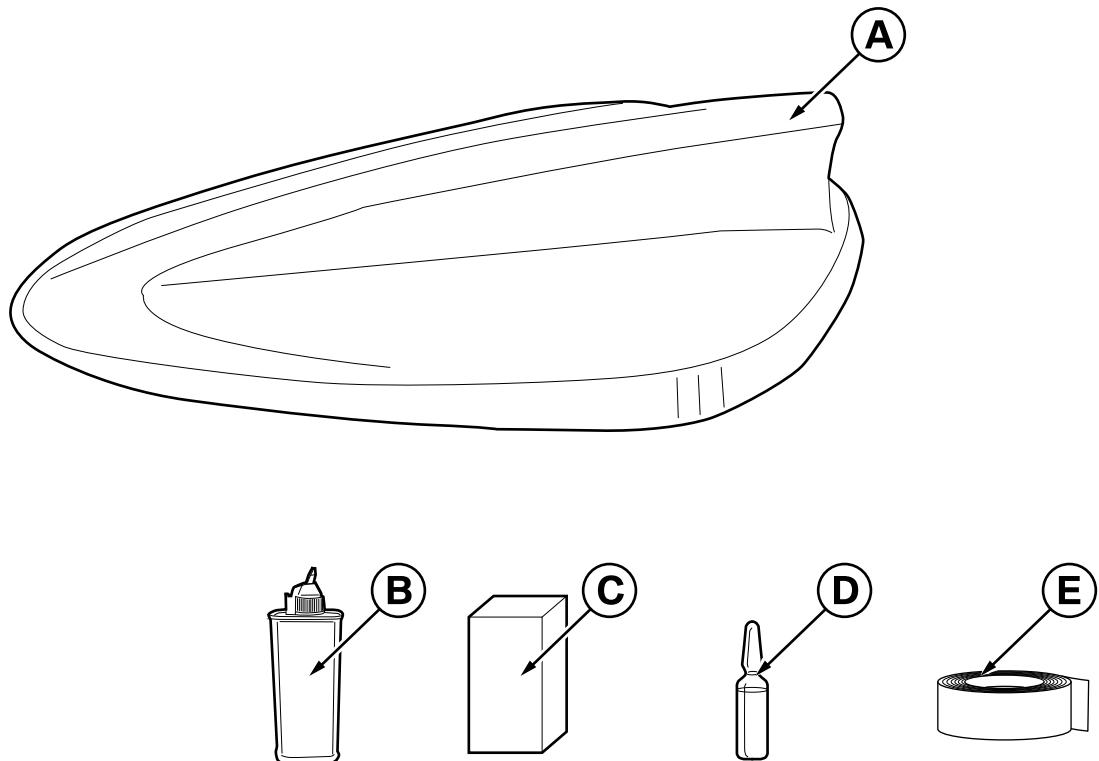
Special tools required

- Nylon string (Part No. 81 43 2 344 272)
- Knife (Part No. 83 30 0 494 968)

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1. Aramid antenna cover parts list



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Legend

- A** Aramid antenna cover
- B** Cleaner R2 (not included in parts kit, Part No. 83 19 0 417 324)
- C** Windscreen adhesive
(not included in parts kit, included in windscreen repair kit, cold, 1 hour - Part No. 83 19 2 289 285)
- D** Glass activator
(not included in parts kit, included in windscreen repair kit, cold, 1 hour - Part No. 83 19 2 289 285)
- E** Plastic adhesive tape, yellow (not included in parts kit, Part No. 83 19 9 410 979)

2. Information about windscreen bonding repair kit

! Read the following information before starting to use the contents of the kit:

- National safety and industrial safety regulations
- Safety data sheet from the manufacturer
- Instructions for use on the packaging ▲

Storing and using all consumables:

Dry, in temperatures between 15 °C and 25 °C. The adhesive should ideally be warmed up before use.

Shelf life of the adhesive:

The repair kit and adhesive cartridges have a best before date.

The date refers to the calendar week and year (CW/YYYY).

The adhesive may only be used before this date.

Curing the adhesive:

The adhesive cures through its reaction with humidity at room temperature.

! The antenna cover must be installed within 7 minutes from the time that the bead of adhesive is applied (depending on the humidity level and temperature).

After 7 minutes, the bead of adhesive will form a skin and will no longer create a perfect bond.

In ambient temperatures above 23 °C and 50 % relative humidity (hot countries), the “pot time” of the adhesive (the time in which the skin forms) will be reduced to around 5 minutes.

A relative humidity level of < 30 % will slow the curing time significantly.

In ambient temperatures below 5 °C, the curing process of the adhesive will not take place. In this case, the bond will not increase in strength. ▲

Minimum curing time:

The minimum curing time will be achieved in temperatures of over 22 °C and a relative humidity level of over 38 %.

If the curing takes less than the minimum curing time of one hour, leaks or wind noise may occur on the antenna cover.

Disposal of the adhesive:

Cured adhesive can be disposed of as normal household waste.

Non-cured adhesive, adhesive cartridges and mixtures of adhesive and solvents or the like must be disposed of as special waste.

The adhesive must be disposed of in paper bags to enable it to react with moisture.

2. Information about windscreen bonding repair kit

Glass activator:

-  Wear cut-resistant gloves when breaking the glass ampoules.
- Prepare the glass activator by shaking it and breaking the glass ampoule.
- Apply the glass activator by pressing it gently. There is no need to wipe away any excess. The flash-off time is approx. 2 minutes.
- Apply the glass activator to the underside of the antenna so that the adhesive bonds. ◀

Shelf life of the glass activator:

The repair kit and glass activator have a best before date.

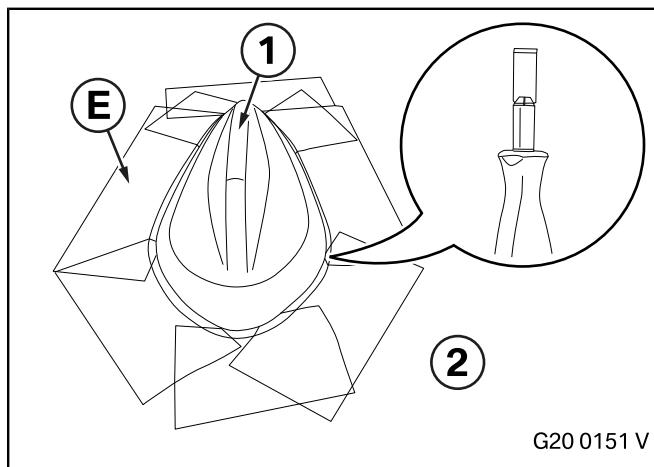
- The glass activator may only be used before this date (if it has not been opened beforehand)
- After it has opened, it may only be used within one week, even if the best before date has not yet been reached

Disposal of the glass activator:

The glass activator must not be disposed of in household waste.

The glass activator must be disposed of as special waste.

3. Aramid antenna cover installation



► Do not lean on the car's roof when removing the standard antenna cover. If you do need to lean on it, cover the side and roof of the car to prevent dents. ◀

Protect the surface of the exterior roof skin (2) with yellow plastic adhesive tape **E** around the standard antenna cover (1). Push the yellow plastic adhesive tape **E** as far as possible under the empty housing. Mask the exterior roof skin (2) as shown.

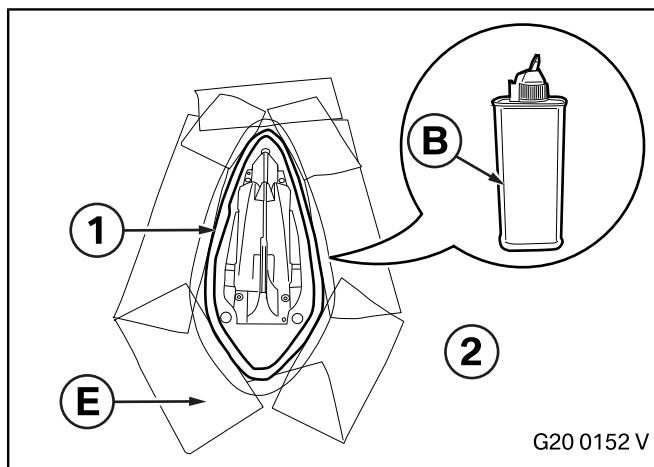
First loosen the cover with the nylon string. Cut the bead of adhesive around its full circumference using the knife and remove the empty housing for the roof antenna.

► If this requires a good deal of force, use the knife again to cut the bead of adhesive a second time. ◀

Remove the adhesive residue (1) on the car roof (2) using suitable tools and the cleaner **B**.

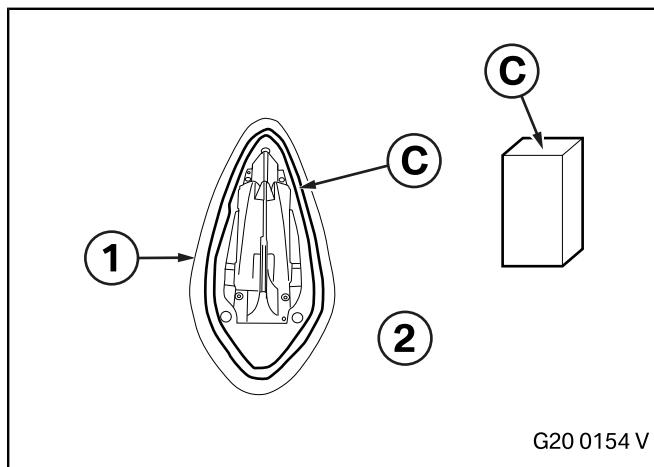
Then remove the yellow plastic adhesive tape **E**.

Finally clean the surface with cleaner **B**.



The following describes two versions of bonding the components. Both versions should be regarded as equivalent and may be used on the basis of personal preference.

3. Aramid antenna cover installation

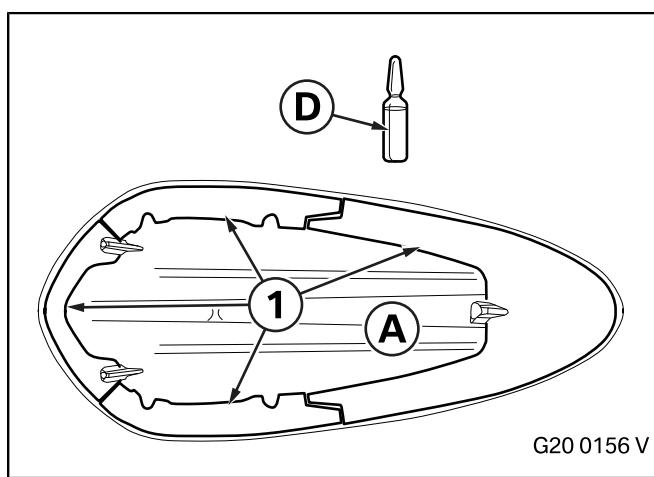


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Version 1: Apply windscreen adhesive to the antenna trough on the vehicle roof

Apply the windscreen adhesive **C** in a bead inside the antenna trough (1) on the car's roof (2) along the old adhesive bead mark.

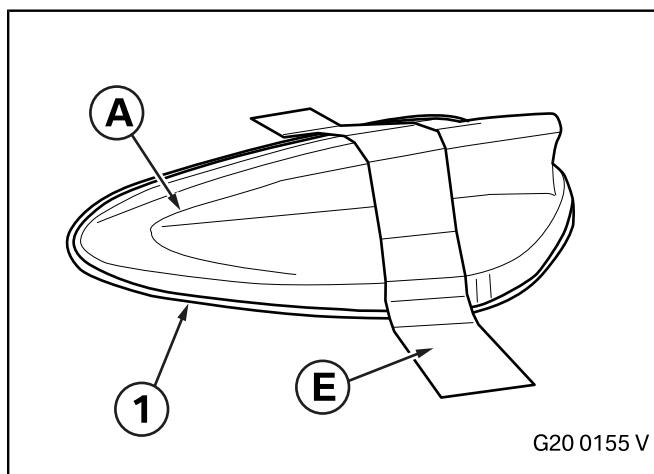
To prevent excess windscreen adhesive **C** coming out, the bead of adhesive must not exceed a maximum diameter of **2.5 mm to 3.5 mm**. The start and end of the bead of adhesive must not overlap by more than a maximum of **10 mm**.



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► The glass activator **D** must be applied to the underside of the antenna cover so that the windscreen adhesive and therefore the antenna cover bonds to the roof. ◀

Treat the bonding surfaces (1) with glass activator **D**, following the instructions.



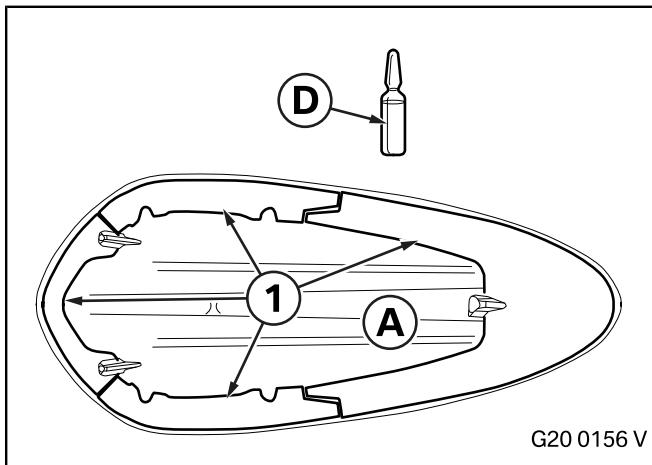
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Position the aramid antenna cover **A** within the antenna trough (1), sliding it to and fro slightly in a horizontal direction. Then centre it, press it into position and secure it with yellow plastic adhesive tape **E**.

► Remove any excess windscreen adhesive **C** immediately using suitable equipment.

After bonding, leave the car for at least three hours at room temperature. ◀

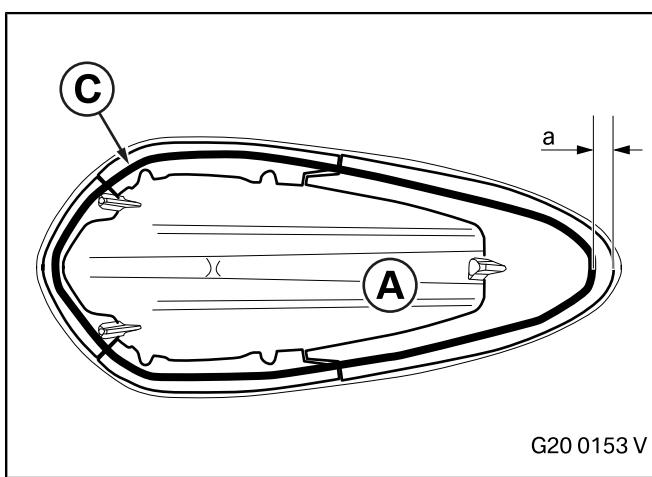
3. Aramid antenna cover installation



Version 2: Apply windscreen adhesive to the underside of the antenna

Treat the bonding surfaces (1) with glass activator **D**, following the instructions.

► The glass activator **D** must be applied to the underside of the antenna cover so that the windscreen adhesive bonds. ◀

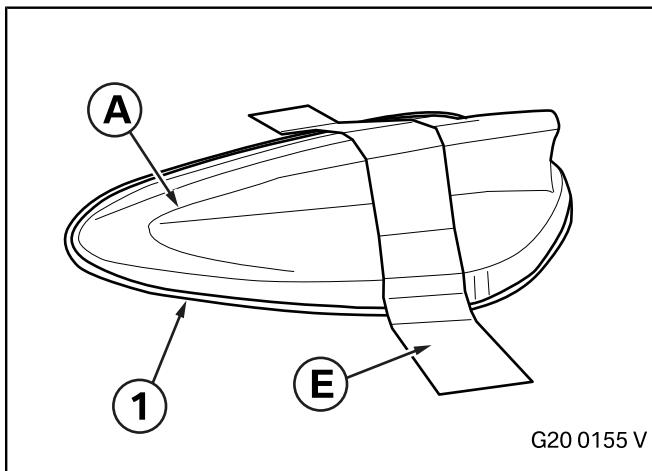


Apply a bead of windscreen adhesive **C** around it, following the external contours.

Distance of the bead of windscreen adhesive **C** to the end of the antenna housing: **a = 6.5 mm ± 1 mm**

The start and end of the bead of windscreen adhesive **C** must not overlap by more than a maximum of **10 mm**.

To prevent excess windscreen adhesive **C** coming out, the bead of adhesive must not exceed a maximum diameter of **2.5 mm to 3.5 mm**.



Position the aramid antenna cover **A** within the antenna trough (1), sliding it to and fro slightly in a horizontal direction. Then centre it, press it into position and secure it with yellow plastic adhesive tape **E**.

► Remove any excess windscreen adhesive **C** immediately using suitable equipment.

After bonding, leave the car for at least three hours at room temperature. ◀