

Original BMW Accessories.

Installation Instructions.



Mud flaps retrofit BMW X5/X5M (E 70)

Retrofit kit no.:	82 16 0 414 673	Front mud flaps kit 18"/19" without step
	82 16 0 416 162	Front mud flaps kit 20"/21" with step
	82 16 0 416 161	Front mud flaps kit 20"/21" without step
	82 16 0 428 284	Front mud flaps kit X5M and M Sport package
	82 16 0 414 674	Rear mud flaps kit 18"/19"
	82 16 0 420 836	Rear mud flaps kit 20" with Aero package
	82 16 0 416 163	Rear mud flaps kit 20" without Aero package
	82 16 0 430 714	Rear mud flaps kit 21" with Aero package
	82 16 0 430 713	Rear mud flaps kit 21" without Aero package
	82 16 0 428 644	Rear mud flaps kit 21" with M Sport package
	82 16 0 428 281	Rear mud flaps kit X5M

Installation time

The installation time is around **0.5 hours** per axle, although this may vary depending on the condition of the car and the equipment in it.

In general the car must be upgraded to the latest I stage status by flashing before starting the conversion work. Differing programming times may be necessary depending on the production age of the vehicle and on work previously performed on the vehicle.

The installation time specified does not include the time spent on programming/coding.

The calculation of the total costs for the programming time must be factored into the calculation of retrofitting costs (no invoicing via warranty).

Important information

The rear mud flaps for 18"/19" wheels cannot be installed in conjunction with the special accessories Aero package.

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

In any event, the target group for these installation instructions is specialist personnel trained on BMW cars with the appropriate specialist knowledge.

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

If you experience installation or function 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, an inquiry is to be sent straight away to the technical parts support via the Aftersales Assistance Portal (ASAP).

Specify the following information:

- Chassis number,
- Part number of the retrofit kit,
- A precise description of the problem,
- Work steps already carried out.

Do not archive the hard copy of these installation instructions since daily updates are provided via ASAP!

All pictures show LHD cars; proceed accordingly on RHD cars.

Pictograms



Denotes instructions that draw your attention to special features.

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

Installation information

Some of the installation is shown only on the left-hand side of the car, proceed in the same way on the right-hand side of the car.

Bonding surfaces must be cleaned with a cleaner and must be free from grease.

The ambient temperature for bonding must be no lower than 15 °C and no higher than 35 °C.

The car may be driven after approx. **6 hours** and may be taken through a car wash after **48 hours**.

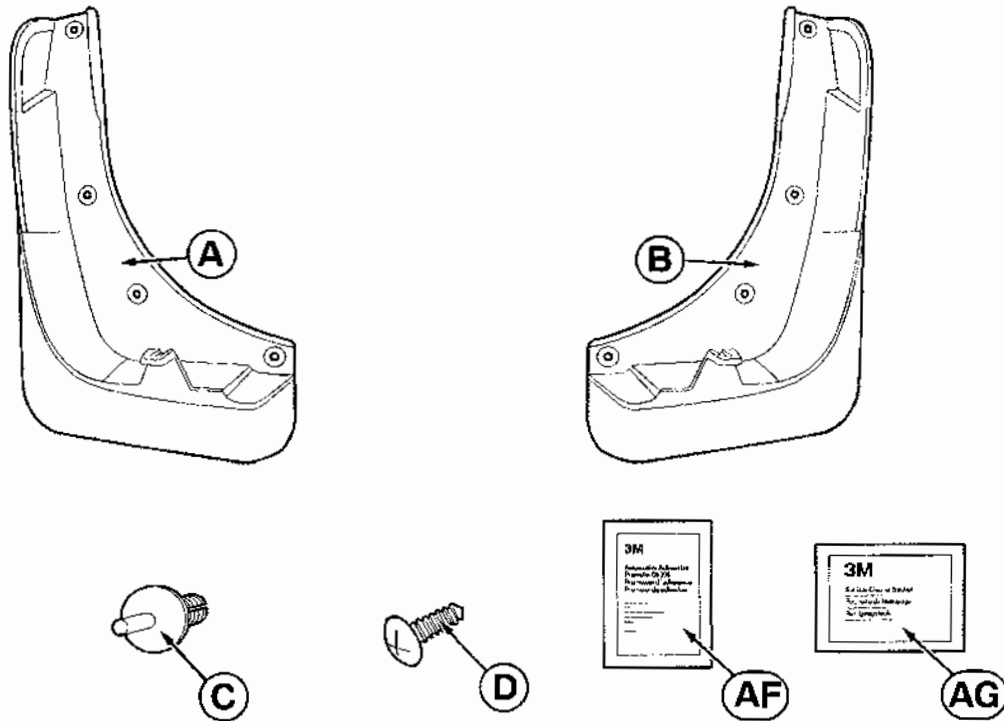
Special tools required

None

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1. Front mud flaps all 20"/21" parts list, M Sport package and X5M

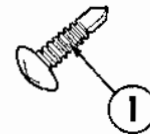
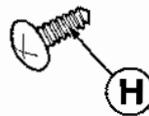
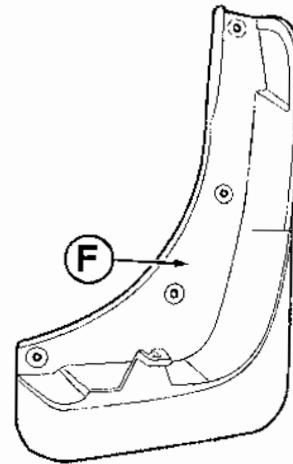
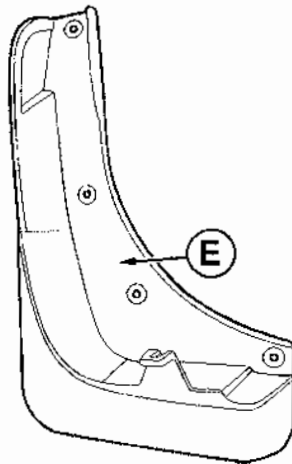


0700305 V

Legend

- A Left mud flap
- B Right mud flap
- C Expanding rivet (8 x) (for 20"/21" only: 10 x)
- D Self-tapping screw 4.8x22 (2 x)
- AF Primer (not included in the M Sport package and X5M parts kit)
- AG Cleaning cloth (not included in the M Sport package and X5M parts kit)

2. Front mud flaps 18"/19" parts list



0700104 V

Legend

E Left mud flap

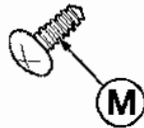
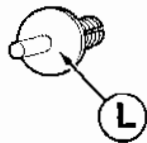
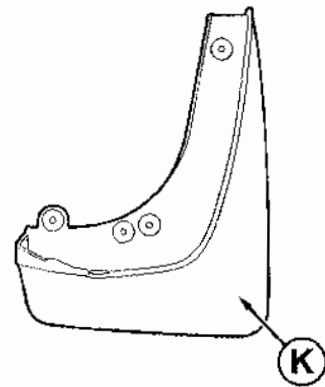
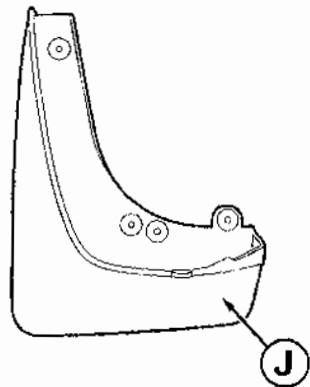
F Right mud flap

G Expanding rivet (8 x)

H Self-tapping screw 4.8x22 (2 x)

I Self-tapping screw (4 x) (only required for step)

3. Rear mud flaps 18"/19" parts list



070 0041 V

Legend

J Left mud flap

K Right mud flap

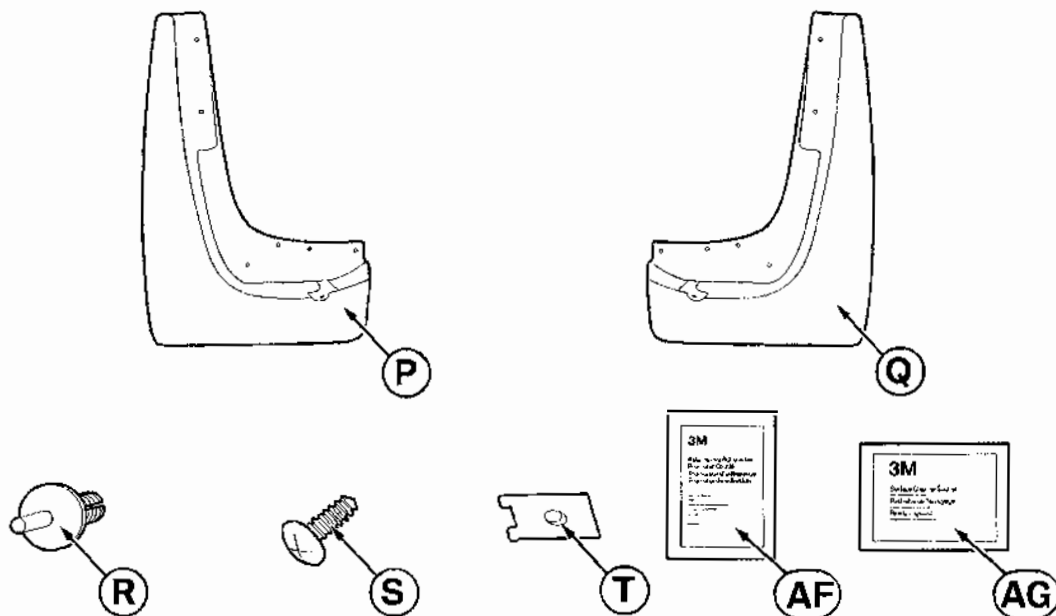
L Expanding rivet (2 x)

M Screw 4.8x22 (4 x)

N Sheet metal nut 4.8 (2 x)

O Self-tapping screw (4 x)

4. Rear mud flaps 20"/21" without Aero package parts list

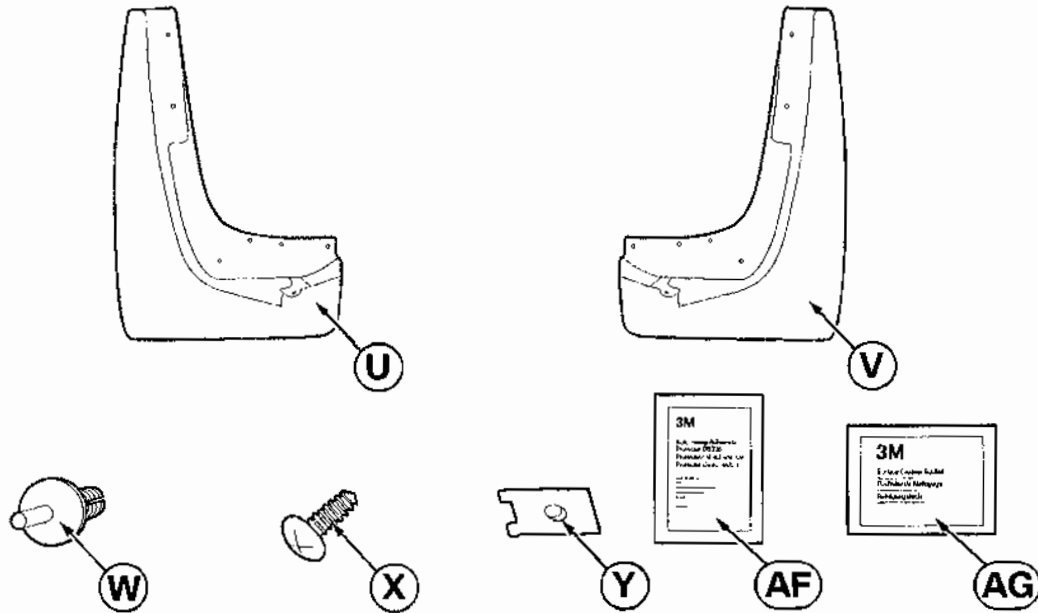


070 0306 V

Legend

- | | | | |
|----------|--|-----------|----------------------------|
| P | Left mud flap | T | Sheet metal nut 4.8 (10 x) |
| Q | Right mud flap | AF | Primer |
| R | Expanding rivet (6 x for 20"), (8 x for 21") | AG | Cleaning cloth |
| S | Screw 4.8x22 (14 x) | | |

5. Rear mud flaps 20"/21" with Aero package parts list

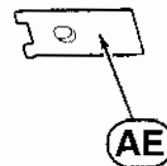
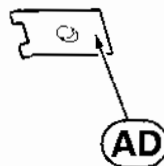
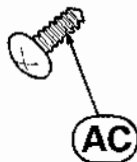
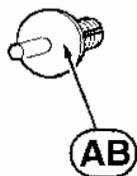
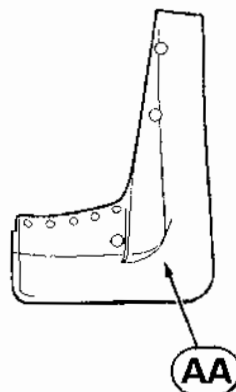
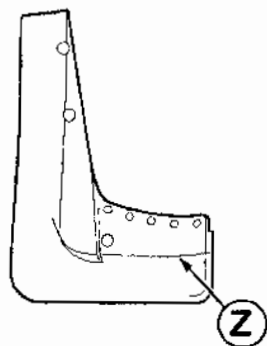


070 0307 V

Legend

- | | | | |
|----------|-------------------------------------|-----------|----------------------------|
| U | Left mud flap | Y | Sheet metal nut 4.8 (10 x) |
| V | Right mud flap | AF | Primer |
| W | Expanding rivet (6 x) (8 x for 21") | AG | Cleaning cloth |
| X | Screw 4.8x22 (12 x) | | |

6. Rear mud flaps kit 21" with M Sport package parts list



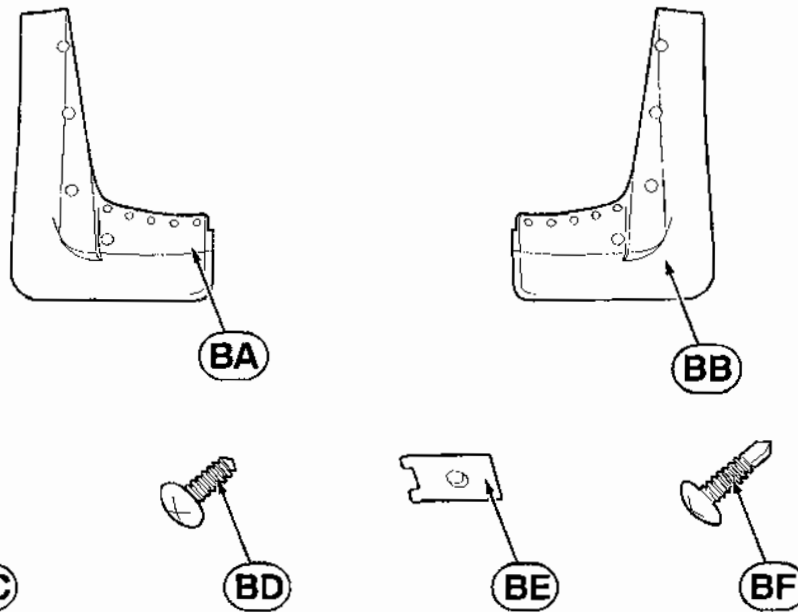
070 0290 V

Legend

Z Left mud flap
AA Right mud flap
AB Expanding rivet (4 x)

AC Screw 4.8x22 (16 x)
AD Sheet metal nut 4.8 (10 x)
AE Sheet metal nut (2 x)

7. Rear mud flaps kit X5M parts list



070 0370 V

Legend

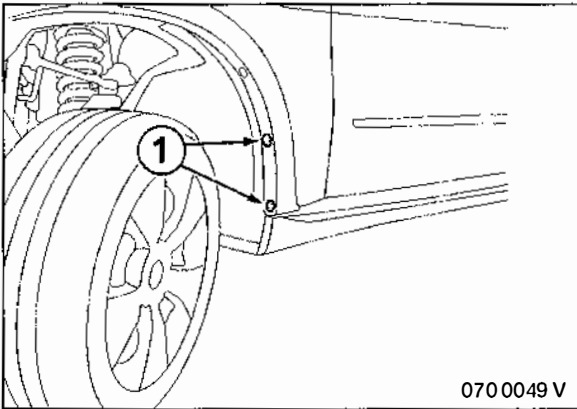
BA Left mud flap
BB Right mud flap
BC Expanding rivet (8 x)

BD Screw 4.8x22 (12 x)
BE Sheet metal nut 4.8 (10 x)
BF Self-tapping screw (2 x)

8. Preparatory work

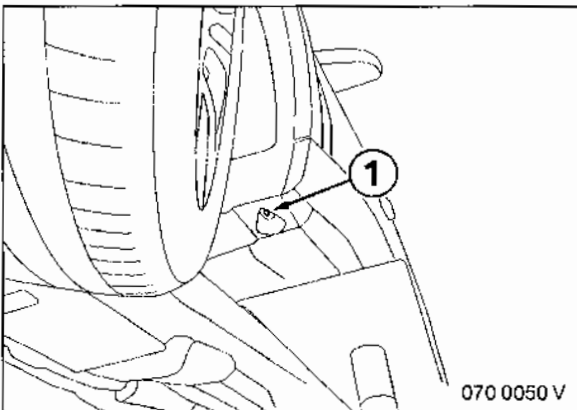
	ISTA No.
Conduct a brief test	---
The following components must be removed first (only when installed at the rear)	
Rear wheel left and right	36 10 300

9. Fitting the front mud flaps 18"/19" without step

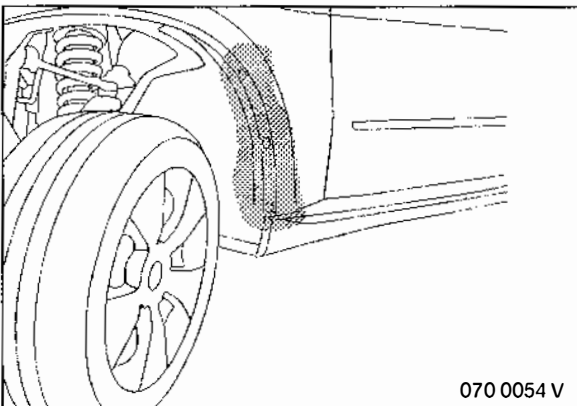



Turn the steering all the way to the left.

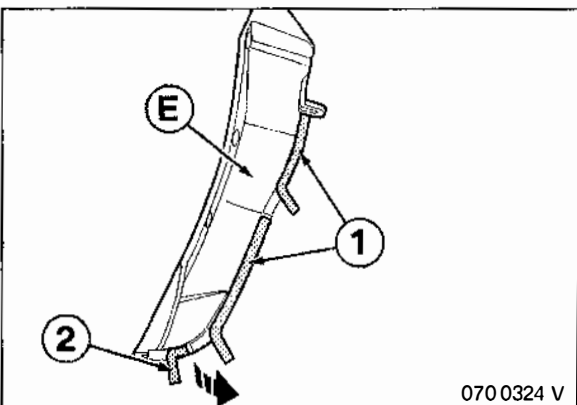
Remove the existing blind rivets (1) as they are no longer needed.



Remove the existing screw (1) as it is no longer needed.



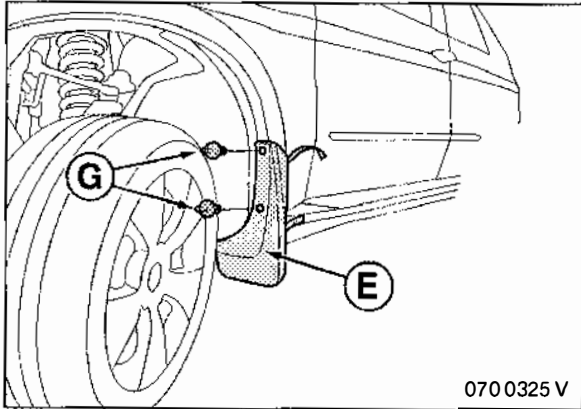
 Bonding surfaces must be cleaned with a cleaner and must be free from grease. ◀



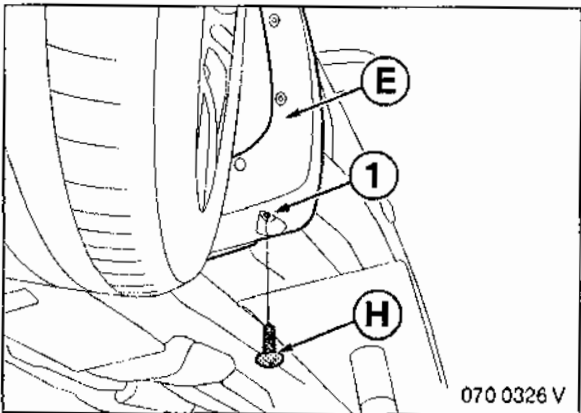
Peel back the protective film (1) on the adhesive strip approximately 20 mm from the mud flap E.

Completely remove the protective film (2).

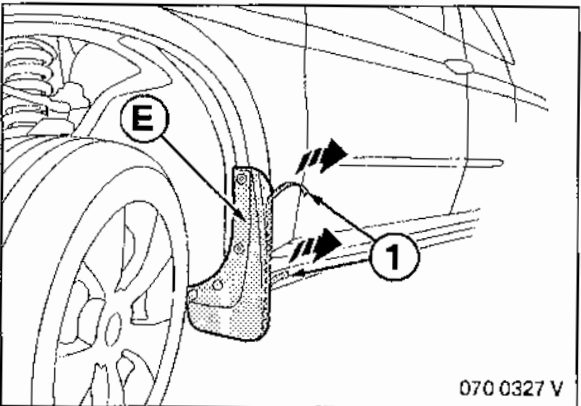
9. Fitting the front mud flaps 18"/19" without step



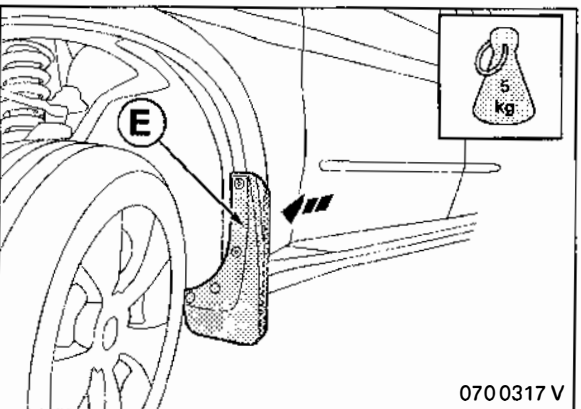
Position the mud flap **E** and secure with expanding rivets **G**.



Secure mud flap **E** at the bottom using screw **H**.

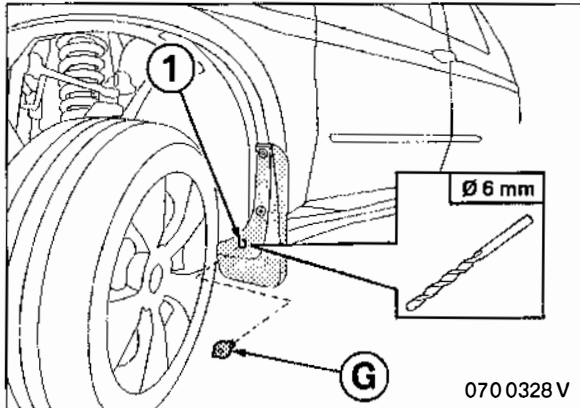


Remove the protective film (1) from the adhesive strip on mud flap **E**.



Press mud flap **E** along its outer contour on the side wall.

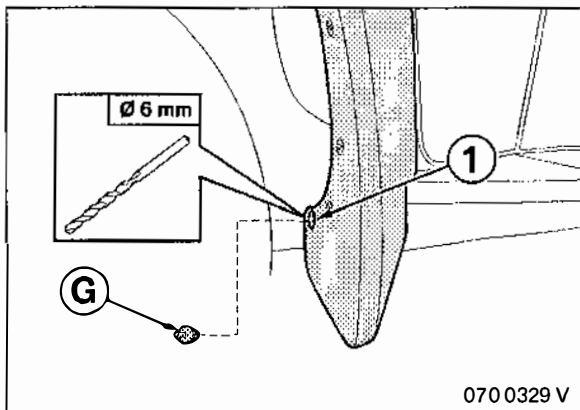
9. Fitting the front mud flaps 18"/19" without step



Do not exceed the drilling depth since otherwise you may damage the car. ◀

Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Then position the expanding rivet G.



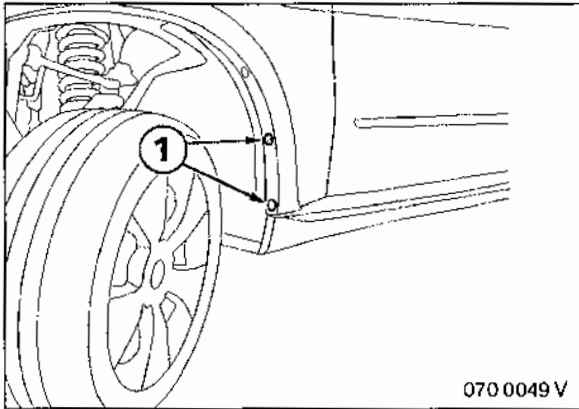
Do not exceed the drilling depth since otherwise you may damage the car. ◀

Turn the steering all the way to the right.

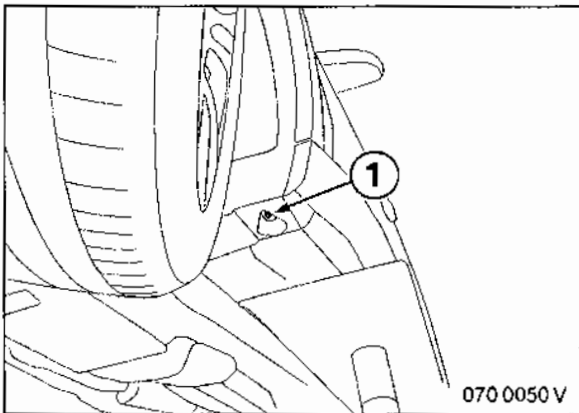
Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Then position the expanding rivet G.

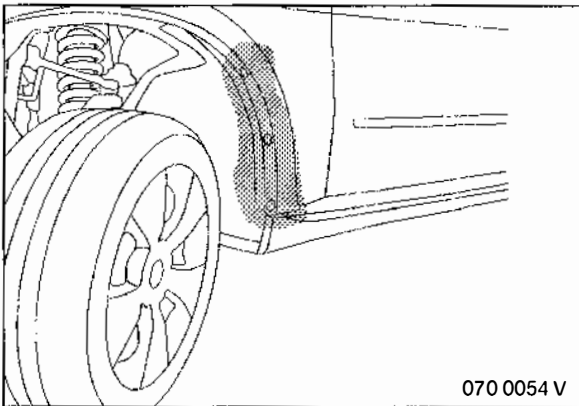
10. Fitting the front mud flaps 18"/19" with step



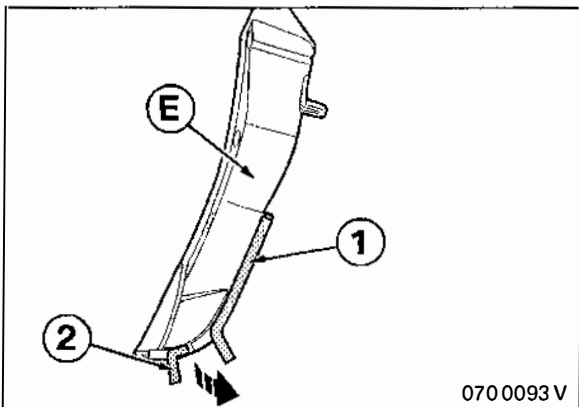
Turn the steering all the way to the left.
Remove the existing blind rivets (1) as they are no longer needed.



Remove the existing screw (1) as it is no longer needed.

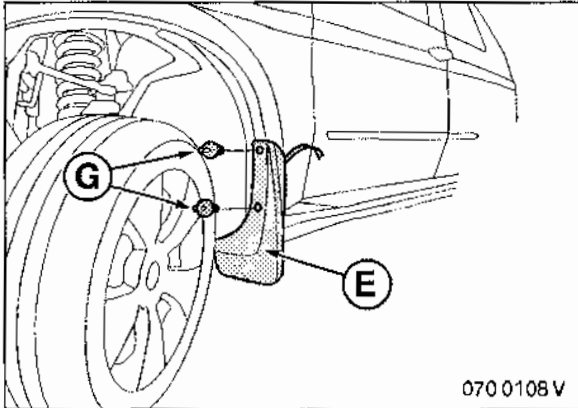


▶ Bonding surfaces must be cleaned with a cleaner and must be free from grease. ◀

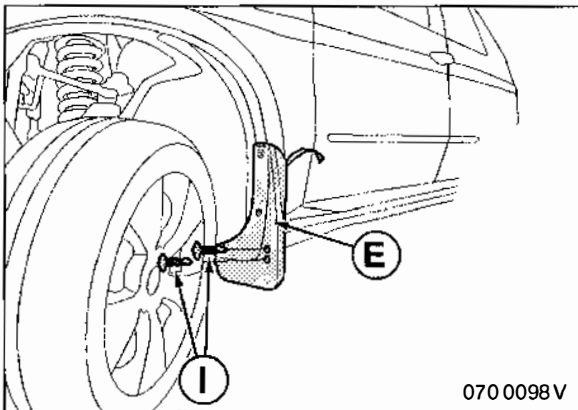


Peel back the protective film (1) on the adhesive strip approximately 20 mm from the top end of mud flap E.
Completely remove the protective film (2).

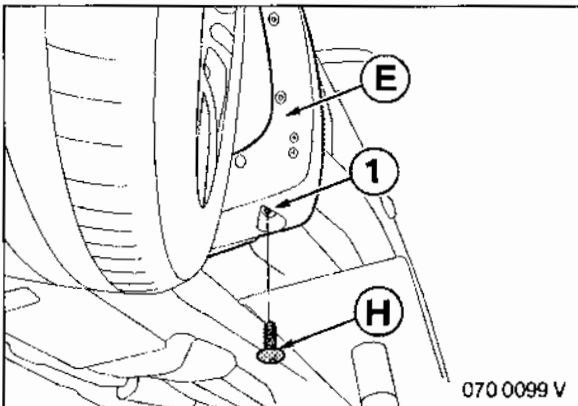
10. Fitting the front mud flaps 18"/19" with step



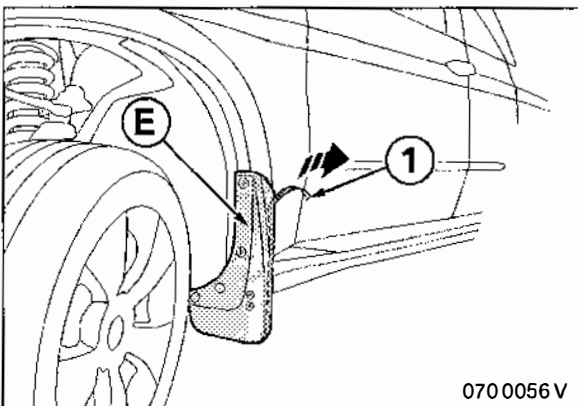
Position the mud flap **E** and secure with expanding rivets **G**.



Screw self-tapping screws **I** into mud flap **E**.

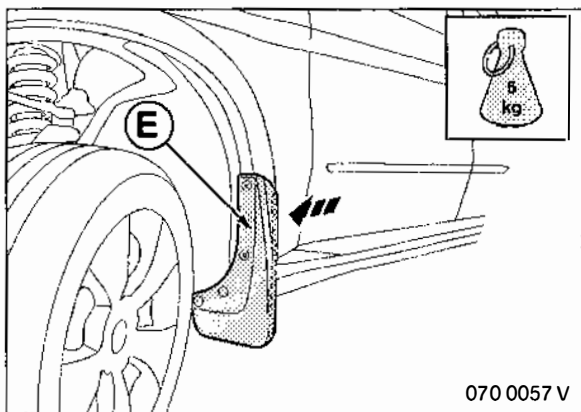


Secure mud flap **E** with screw **H** through hole (1).

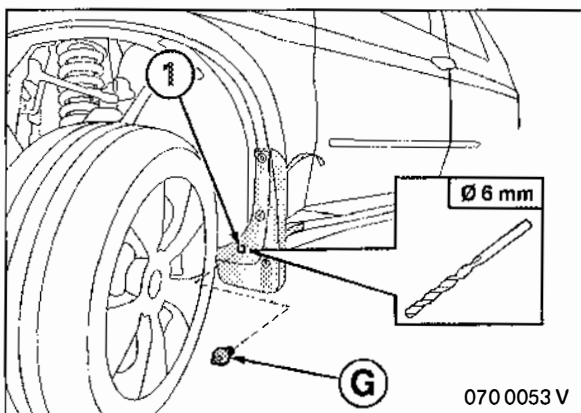


Remove the protective film (1) from the adhesive strip on mud flap **E**.

10. Fitting the front mud flaps 18"/19" with step



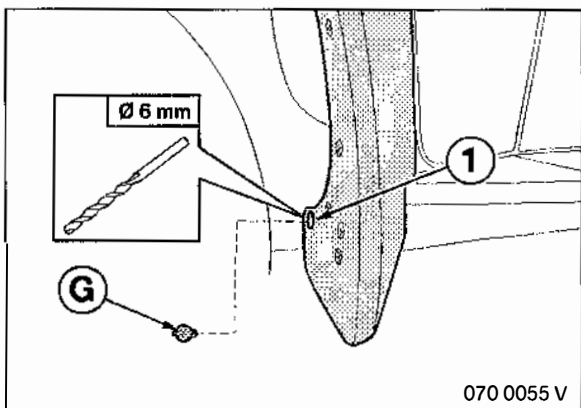
Press mud flap **E** along its outer contour on the side wall.



▶ Do not exceed the drilling depth since otherwise you may damage the car. ◀

Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Then position the expanding rivet **G**.



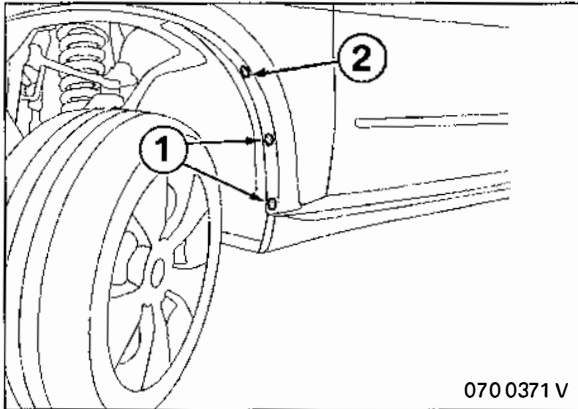
▶ Do not exceed the drilling depth since otherwise you may damage the car. ◀

Turn the steering all the way to the right.

Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Then position the expanding rivet **G**.

11. Fitting front mud flaps 20"/21", M Sport package and X5M

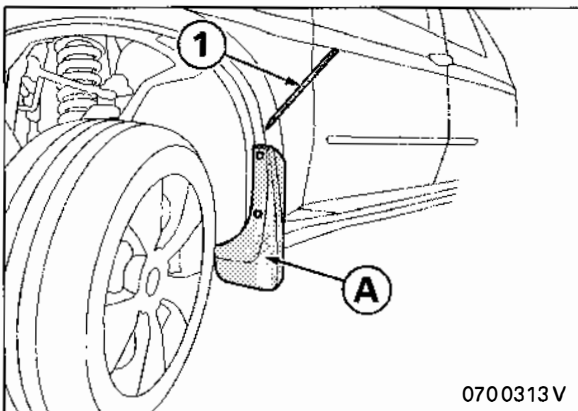


Turn the steering all the way to the left.

Remove the existing blind rivets (1) as they are no longer needed.

For M Sport package and X5M only:

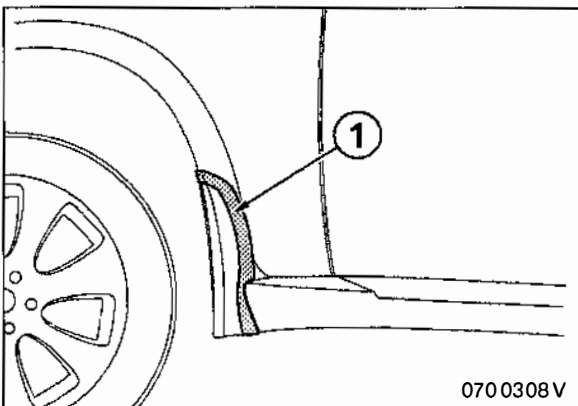
Remove the existing blind rivet (2) as it is no longer needed.



For all cars except M Sport package and X5M:

Position mud flap A.

Trace the contours of mud flap A using a water-soluble pen (1). Then remove mud flap A again.

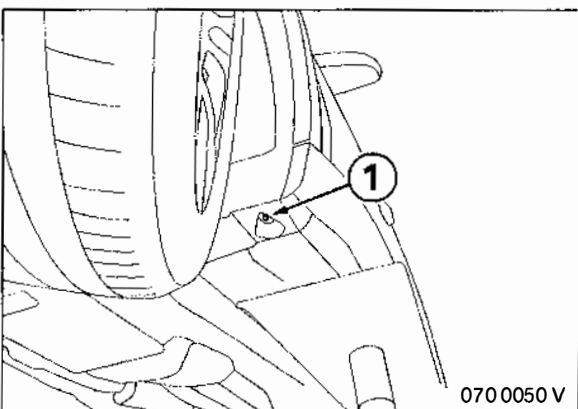


Clean the surface (1) within the marked contour thoroughly with the enclosed cleaning cloth **AG** and allow to dry.

 Do not apply primer **AF** outside the drawn-on contours. ◀

Then apply primer **AF** using the enclosed primer pad.

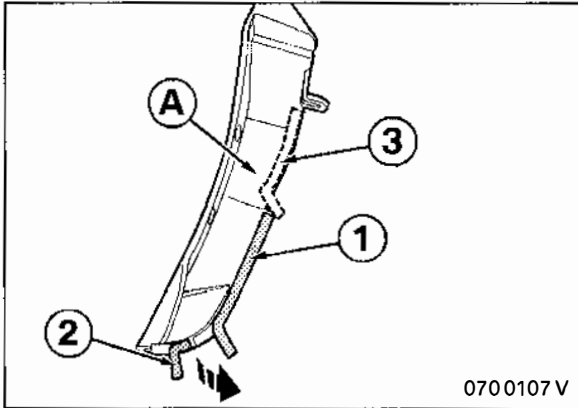
Remove the line made by the water-soluble pen.



For all cars:

Remove the existing screw (1) as it is no longer needed.

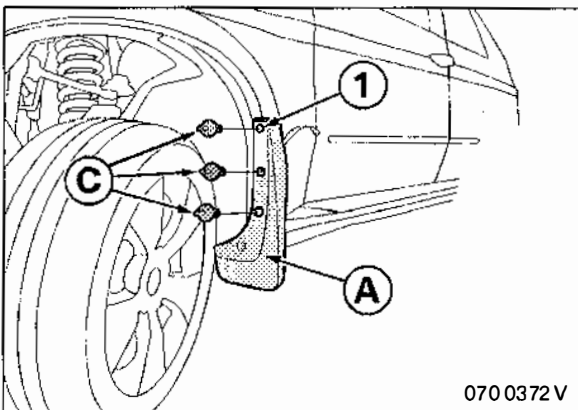
11. Fitting front mud flaps 20"/21", M Sport package and X5M



Peel back the protective film (1) on the adhesive strip approximately 20 mm from the top end of mud flap A.

Completely remove the protective film (2).

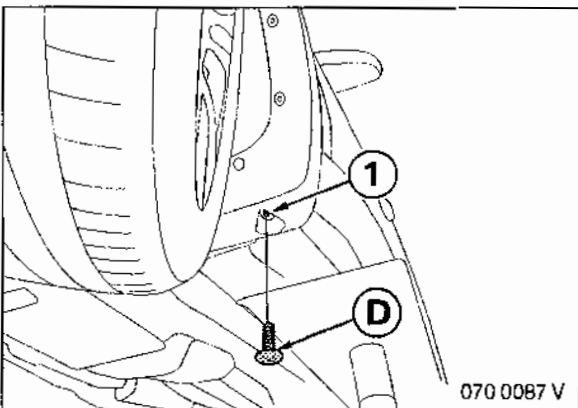
If necessary, peel back the protective film (3) on the adhesive strip approximately 20 mm from the top end of mud flap A.



Position the mud flap A and secure with expanding rivets C.

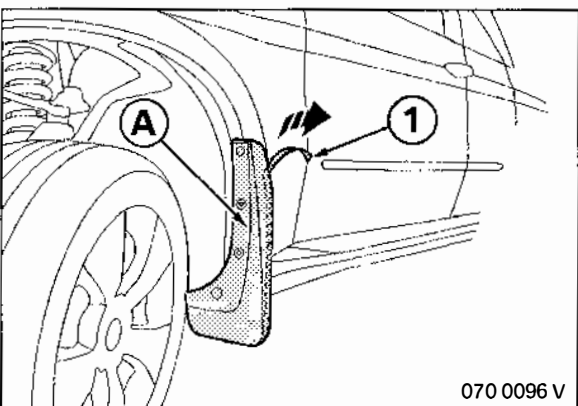
For M Sport package and X5M only:

Also secure mud flap A in hole (1) using an expanding rivet C.



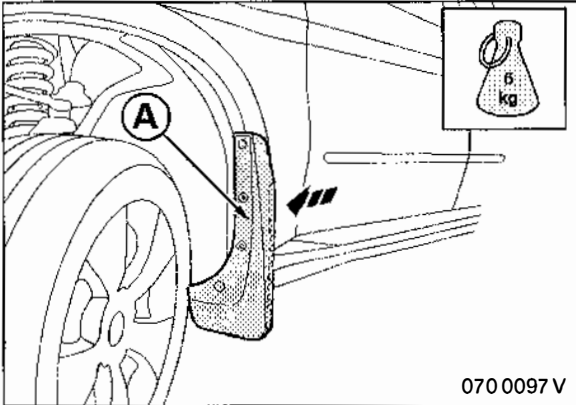
For all cars:

Secure mud flap A at the bottom using screw D.

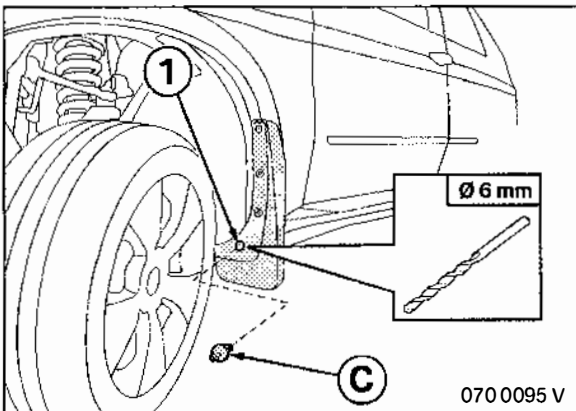


Remove the protective film (1) from the adhesive strip on mud flap A.

11. Fitting front mud flaps 20"/21", M Sport package and X5M



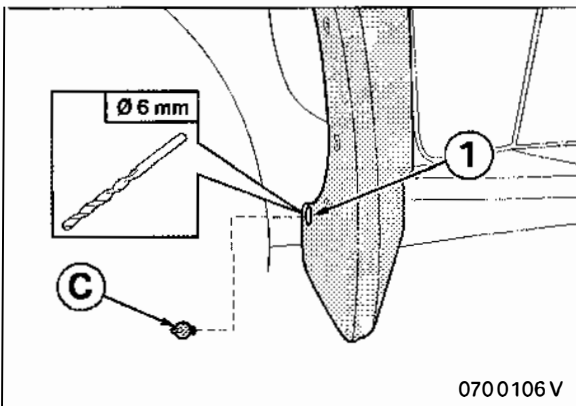
Press mud flap **A** along its outer contour on the side wall.



Do not exceed the drilling depth since otherwise you may damage the car. ◀

Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Then position the expanding rivet **C**.

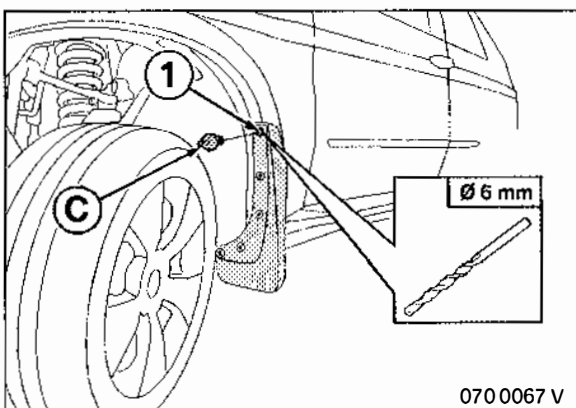


Do not exceed the drilling depth since otherwise you may damage the car. ◀

Turn the steering all the way to the right.

Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Then position the expanding rivet **C**.



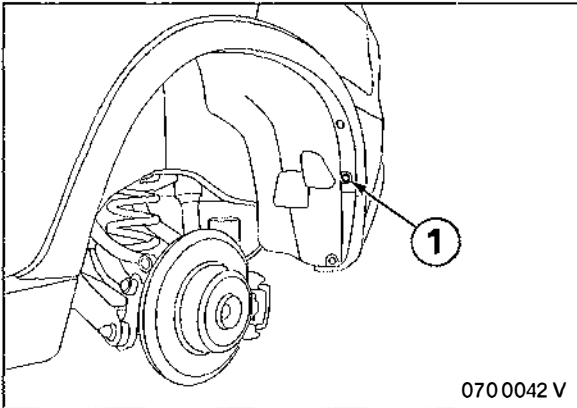
For all cars except M Sport package and X5M:

Do not exceed the drilling depth since otherwise you may damage the car. ◀

Create a hole (1) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

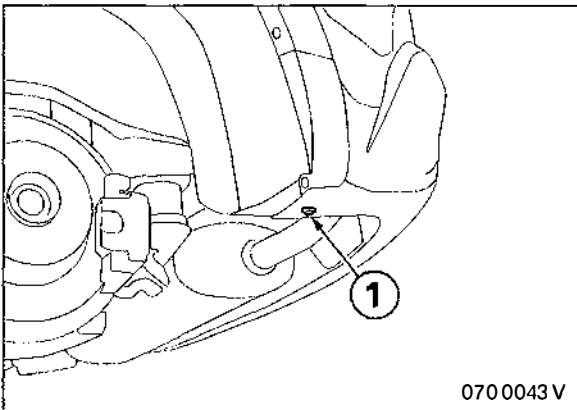
Then position the expanding rivet **C**.

12. Fitting rear mud flaps 18"/19"

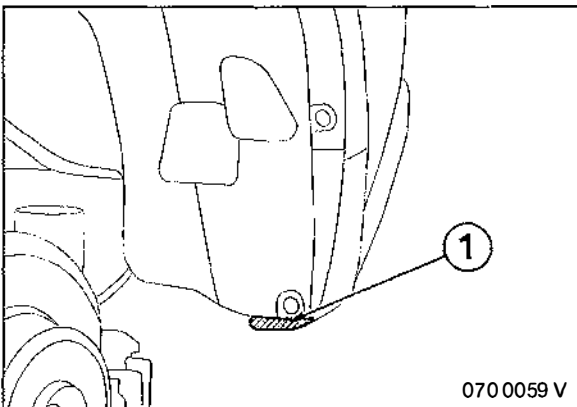


For all cars:

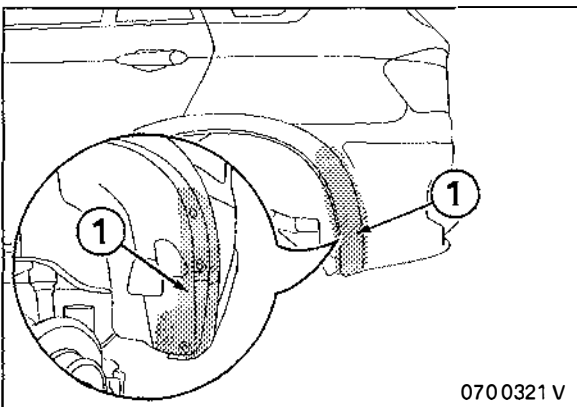
Remove the existing blind rivet (1) as it is no longer needed.




Remove the existing screw (1) as it is no longer needed.

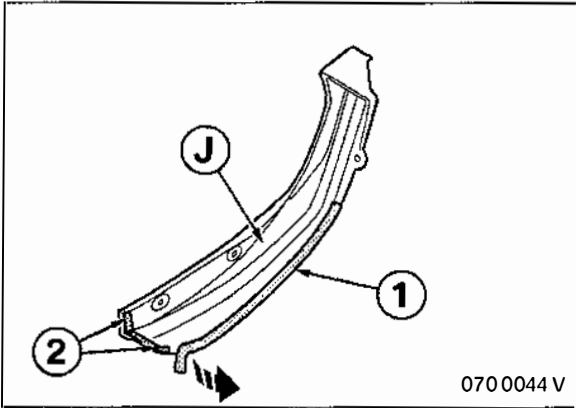


Cut the internal surface of the bumper trim in the area shown (1).



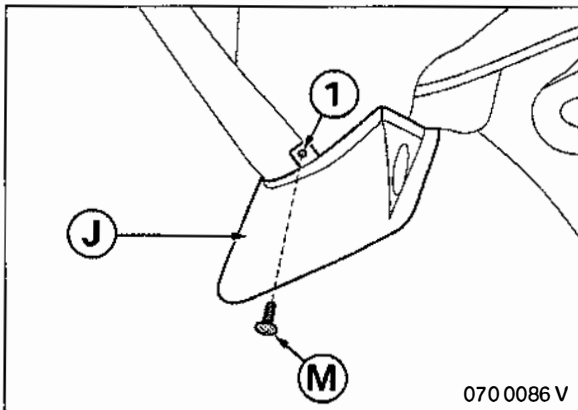
 Bonding surfaces (1) must be cleaned with a cleaner and must be free from grease. ◀

12. Fitting rear mud flaps 18"/19"

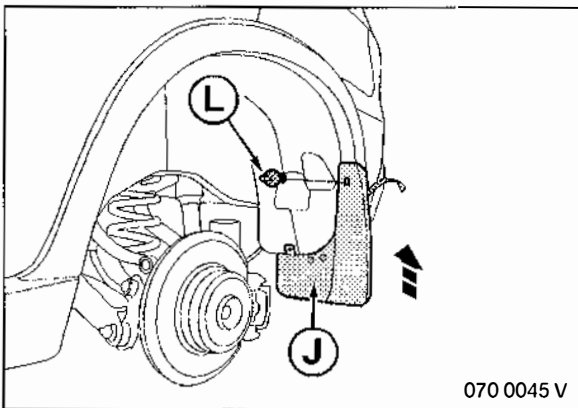


Remove the protective film (1) from the adhesive strip approximately 20 mm from mud flap J.

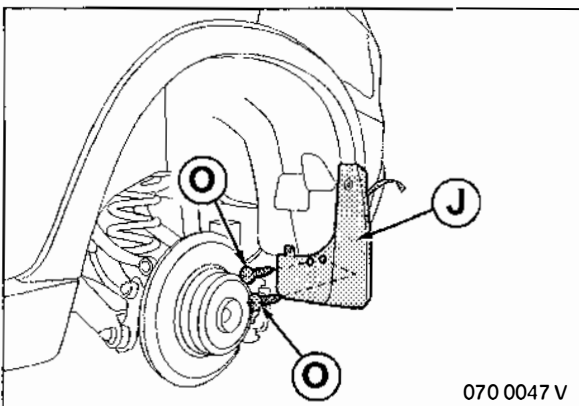
Completely remove the protective film (2).



Secure mud flap J to hole (1) using screw M.

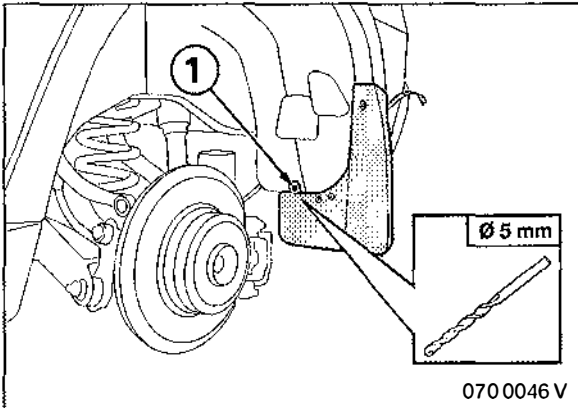


Position mud flap J, push it upwards and secure in place with expanding rivet L.

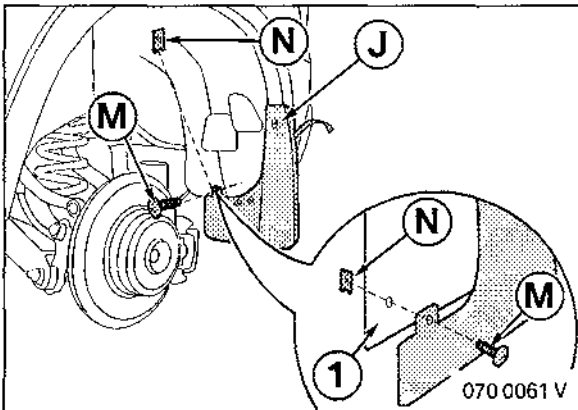


Secure mud flap J using self-tapping screws O.

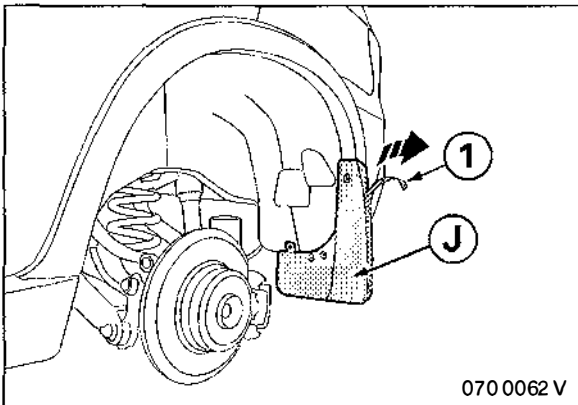
12. Fitting rear mud flaps 18"/19"



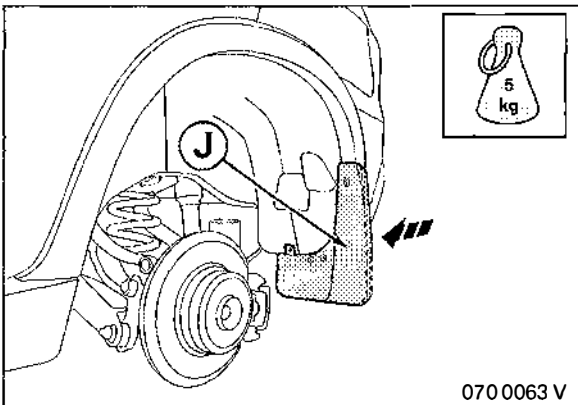
Create a hole (1) of diameter 5 mm.



Introduce sheet metal nut **N** behind the wheel arch (1). Secure the tab of mud flap **J** using screw **M** and sheet metal nut **N**.

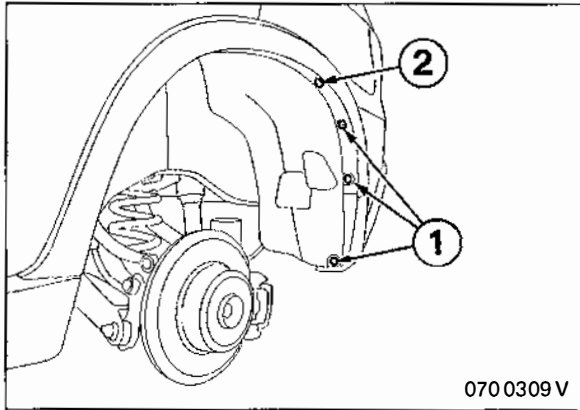


Remove the protective film (1) from the adhesive strip on mud flap **J**.



Press mud flap **J** along its outer contour on the side wall.

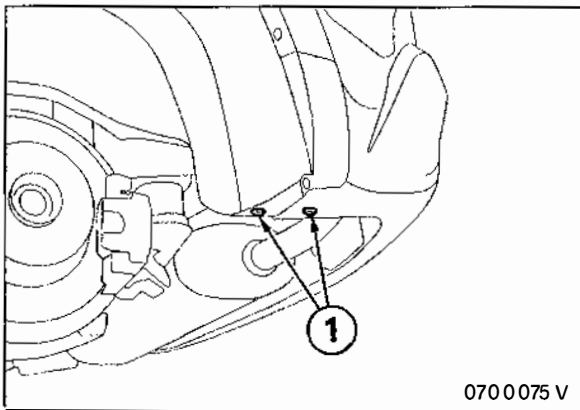
13. Fitting rear mud flaps 20"/21" without Aero package



Remove the existing blind rivets (1) as they are no longer needed.

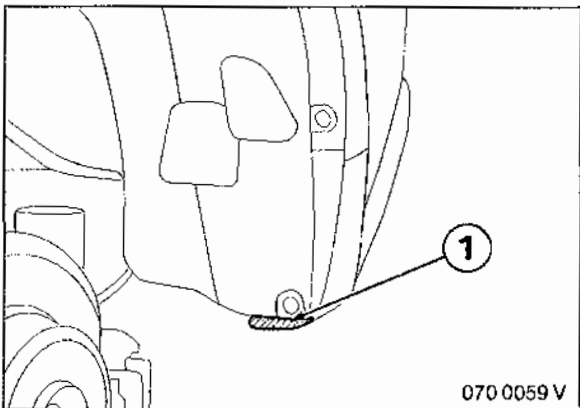
Only for cars with 21":

also remove blind rivet (2) as it is no longer needed.

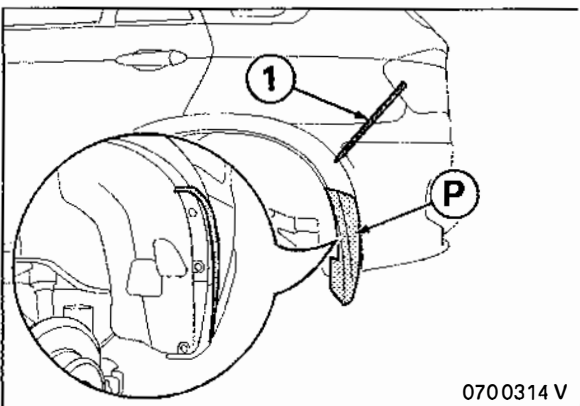


For all cars:

Remove the existing screws (1) as they are no longer needed.



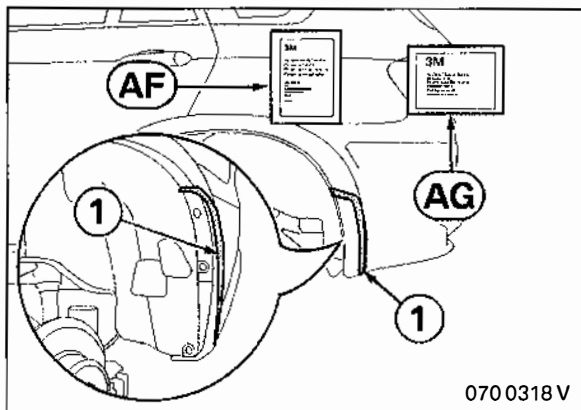
Cut the internal surface of the bumper trim in the area shown (1).



Position mud flap **P**.

Trace the contours of mud flap **P** using a water-soluble pen (1). Then remove mud flap **P** again.

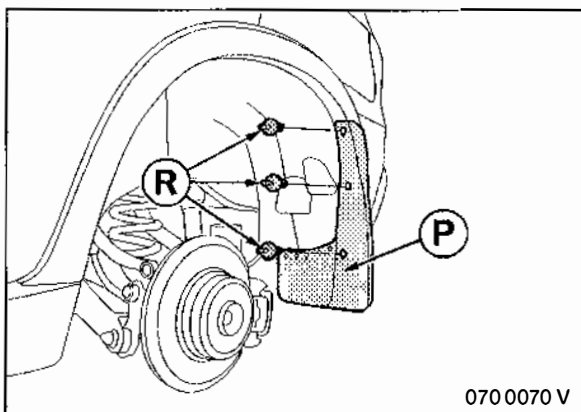
13. Fitting rear mud flaps 20"/21" without Aero package



Do not apply primer **AF** outside the drawn-on contours. ◀

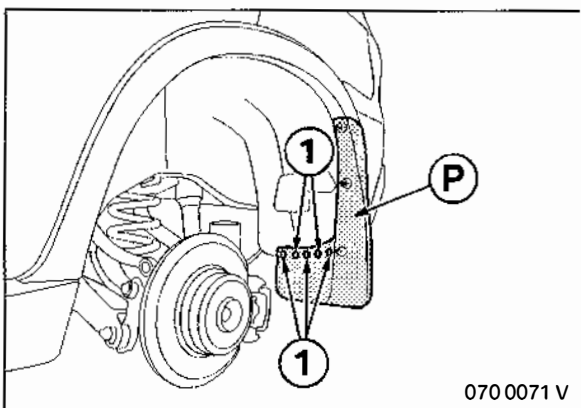
Clean the bonding surface (1) on and in the wheel arch within the marked contour thoroughly with the enclosed cleaning cloth **AG** and allow to dry.

Then apply primer **AF** using the enclosed primer pad. Remove the line made by the water-soluble pen.

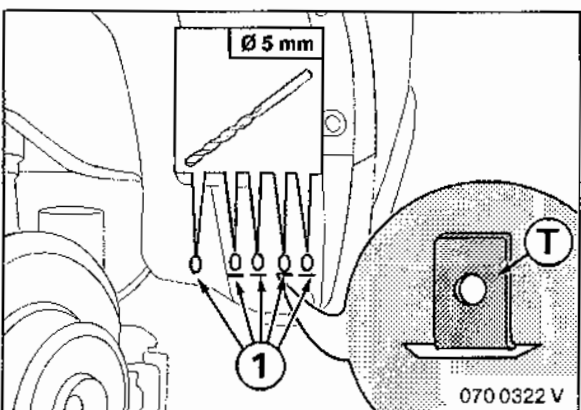


Only place the expanding rivets **R** in position, do not lock them. ◀

Position mud flap **P** and hold in place with expanding rivets **R**.



Mark out the drill holes (1) on mud flap **P** in the wheel arch. Then remove mud flap **P** again.

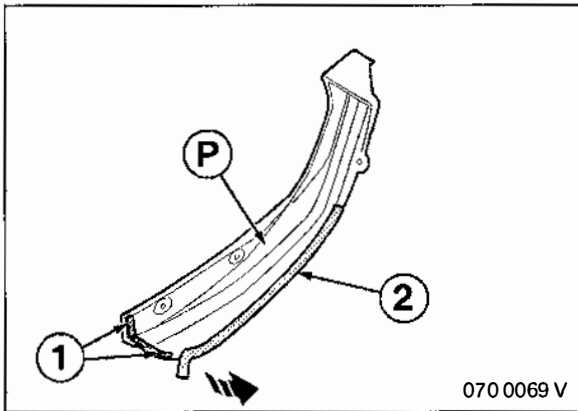


Create a hole (1) of diameter 5 mm.

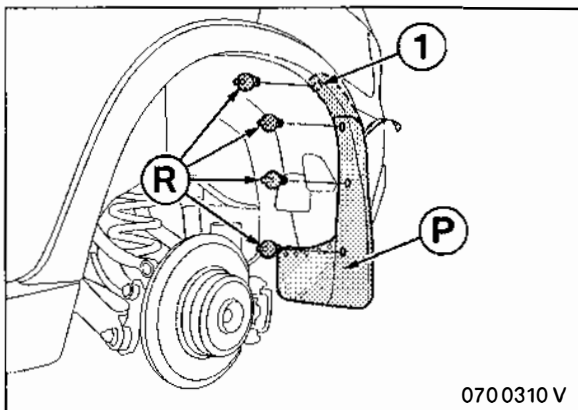
Below the four outer holes (1), create cuts (approx. 10 mm) for the sheet metal nuts **T** using a knife.

Insert four sheet metal nuts **T** into the drill holes.

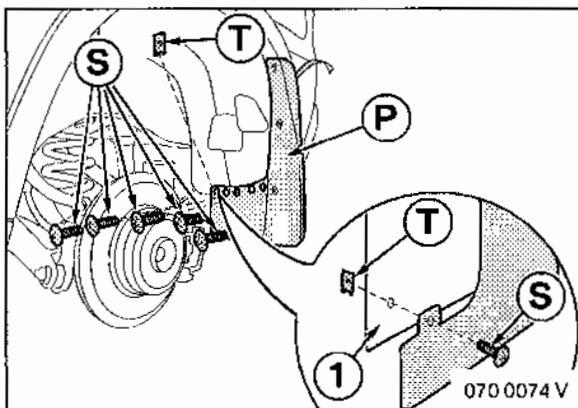
13. Fitting rear mud flaps 20"/21" without Aero package



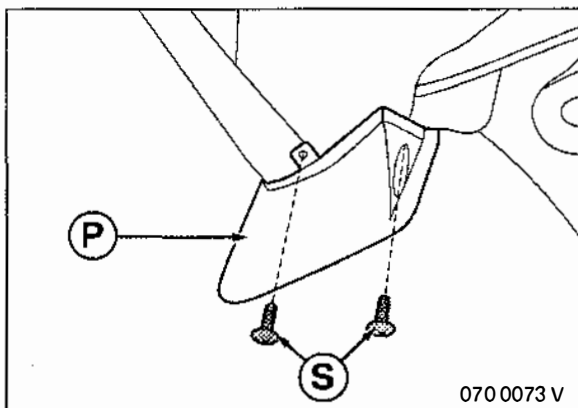
Completely remove the protective film (1) on the adhesive strip, and remove the protective film (2) on the adhesive strip approx. 20 mm from mud flap P.



Reposition mud flap P and secure with expanding rivets R.
Only for cars with 21":
Also secure mud flap P using expanding rivet R at point (2).

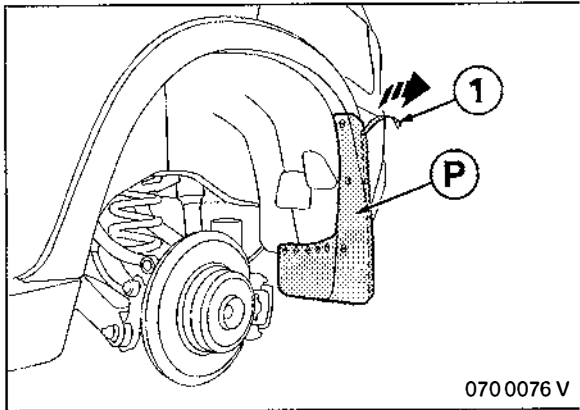


For all cars:
Introduce sheet metal nut T behind the wheel arch (1).
Secure mud flap P using self-tapping screws S.

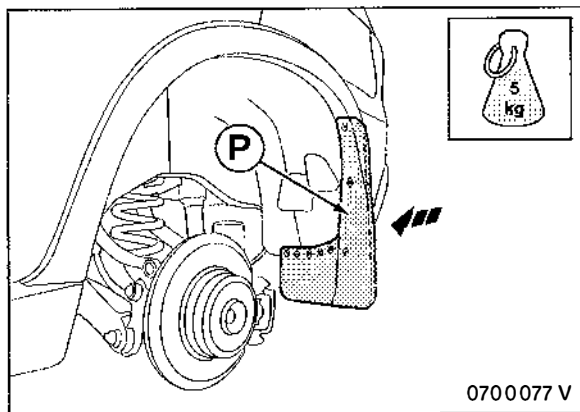


Secure mud flap P using screws S from underneath.

13. Fitting rear mud flaps 20"/21" without Aero package

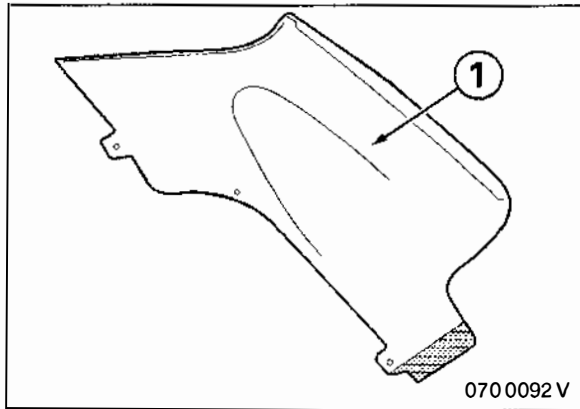


Remove the protective film (1) from the adhesive strip on mud flap P.



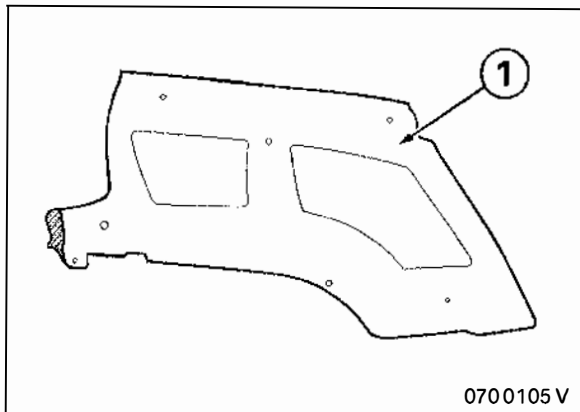
Press mud flap P along its outer contour on the side wall.

14. Fitting rear mud flaps 20"/21" with Aero package

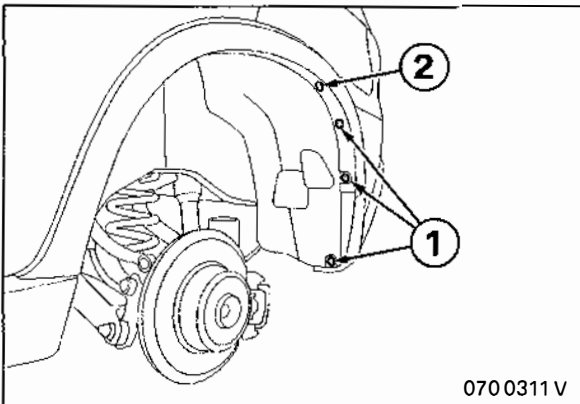


Remove both side sections (1) and side section supports for the Aerodynamic package as per installation instructions 01 29 0 417 827.

Cut the side section (1) in the area shown on the scribed line.



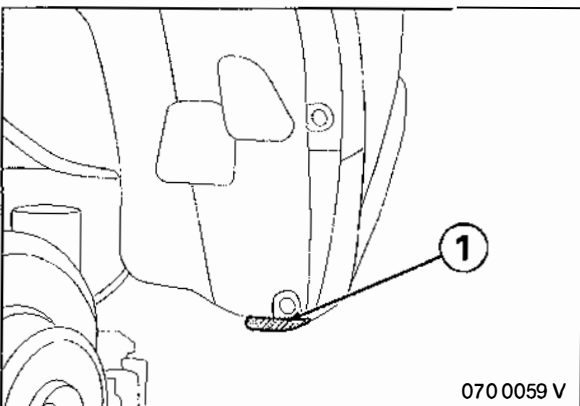
Cut the side section support (1) of the Aerodynamic package in the area shown.



Remove the existing blind rivets (1) as they are no longer needed.

Only for cars with 21":

also remove blind rivet (2) as it is no longer needed.

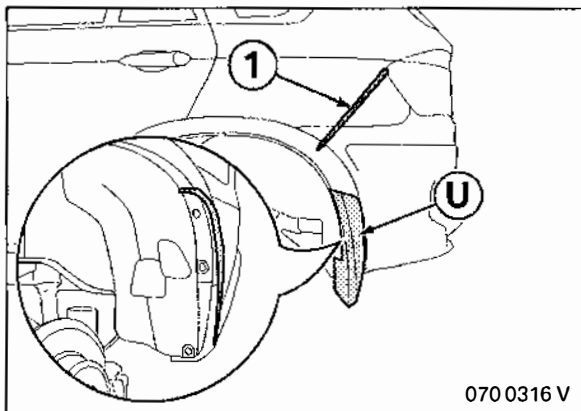


For all cars:

Cut the internal surface of the bumper trim in the area shown (1).

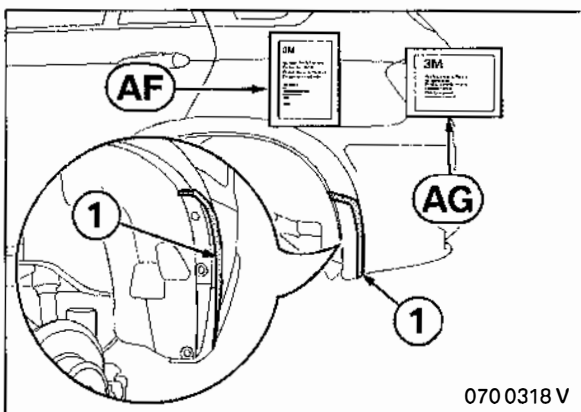
Reinstall the side section and side section support of the Aerodynamic package as per installation instructions 01 29 0 417 827.

14. Fitting rear mud flaps 20"/21" with Aero package



Position mud flap **U**.

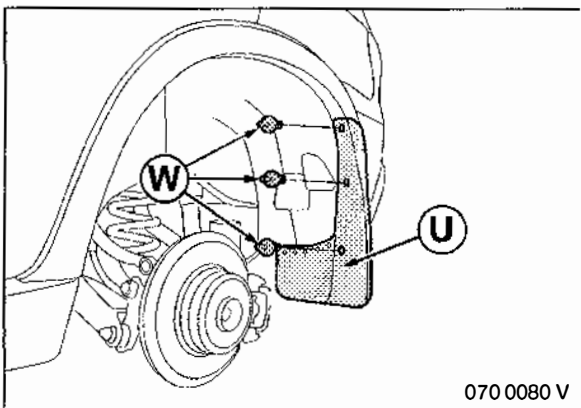
Trace the contours of mud flap **U** using a water-soluble pen. Then remove mud flap **U** again.



Clean the bonding surface (1) on and in the wheel arch within the marked contour thoroughly with the enclosed cleaning cloth **AG** and allow to dry.

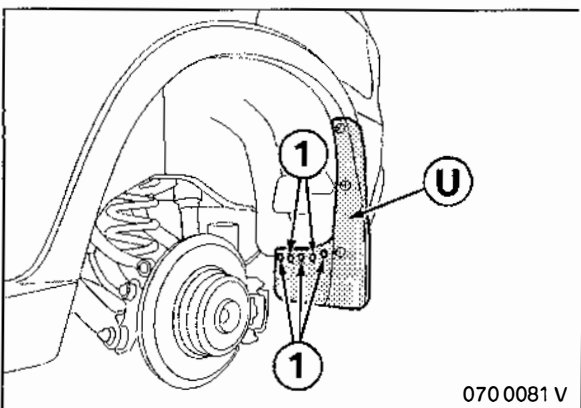
▶ Do not apply primer **AF** outside the drawn-on contours. ◀

Then apply primer **AF** using the enclosed primer pad. Remove the line made by the water-soluble pen.



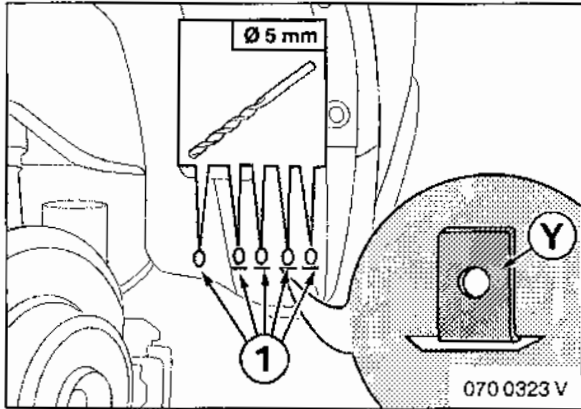
▶ Only place the expanding rivets **W** in position, do not lock them. ◀

Position the mud flap **U** and secure with expanding rivets **W**.



Mark out the drill holes (1) on mud flap **U** in the wheel arch. Then remove mud flap **U** again.

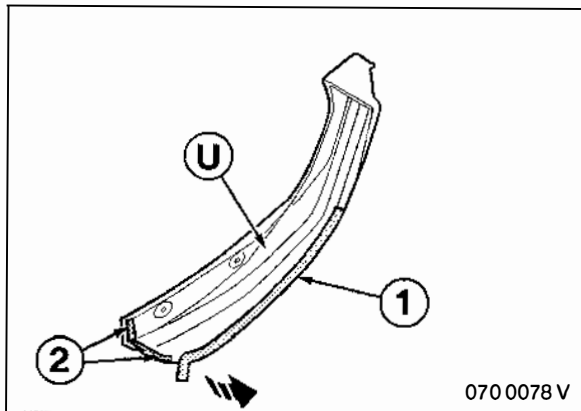
14. Fitting rear mud flaps 20"/21" with Aero package



Create a hole (1) of diameter 5 mm.

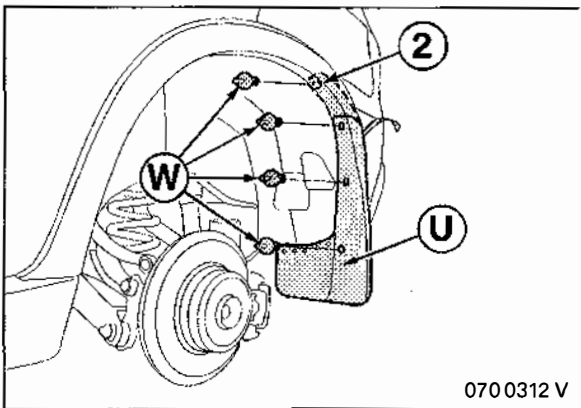
Below the four outer holes (1), create cuts for the sheet metal nuts Y using a knife.

Insert four sheet metal nuts Y into the drill holes.



Remove the protective film (1) on the adhesive strip approximately 20 mm from the mud flap U.

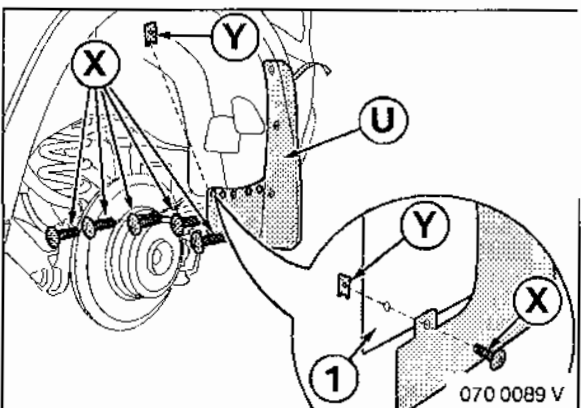
Completely remove the protective film (2).



Re-position the mud flap U and secure with expanding rivets W.

Only for cars with 21":

Also secure mud flap U using expanding rivet W at point (2).

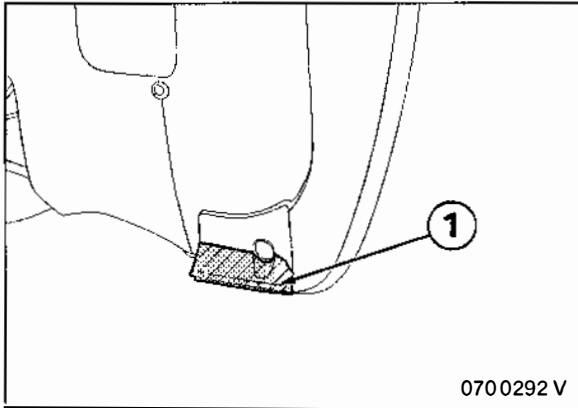


For all cars:

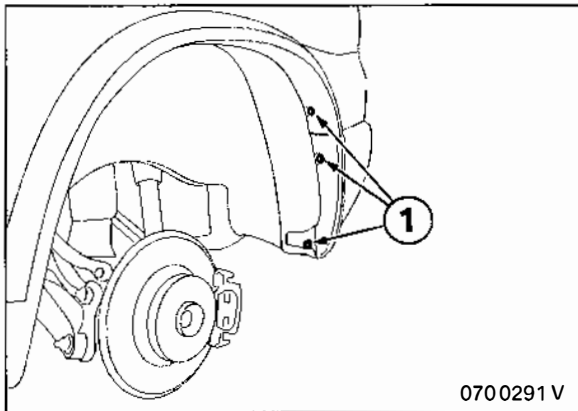
Introduce sheet metal nuts Y behind the wheel arch (1).

Secure mud flap U using self-tapping screws X.

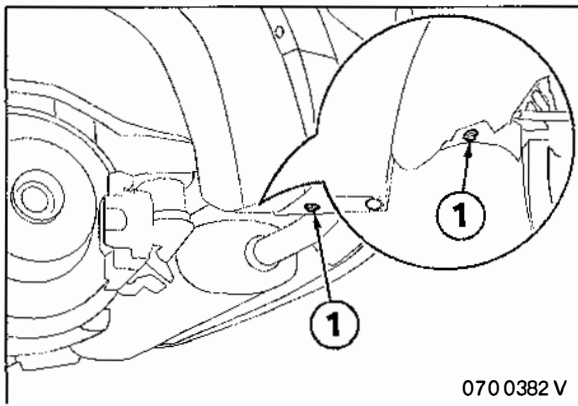
15. Fitting rear mud flaps 20"/21" with M Sport package



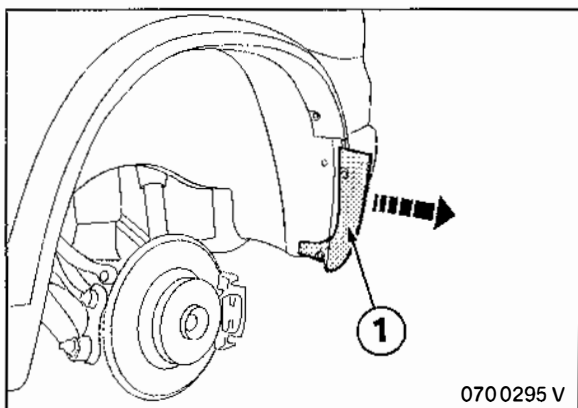
Cut the interior trim of the bumper trim in the area shown (1), taking note of the free space behind the mud flap.



Remove the existing blind rivets (1) as they are no longer needed.

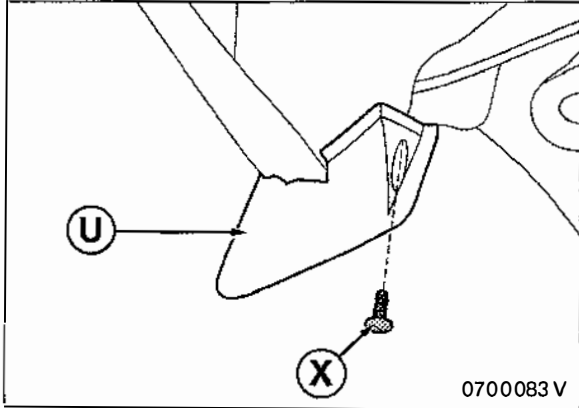


Remove the existing screws (1) as they are no longer needed.

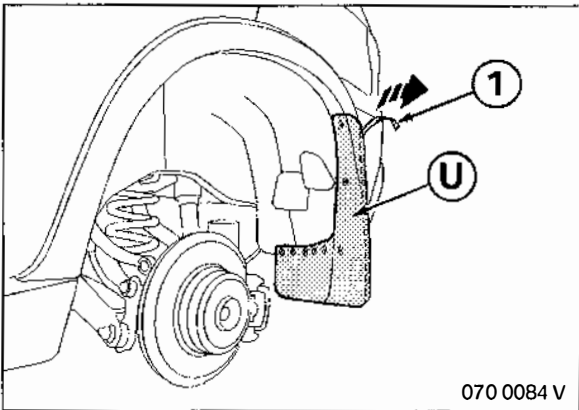


Remove the wheel housing extension (1).

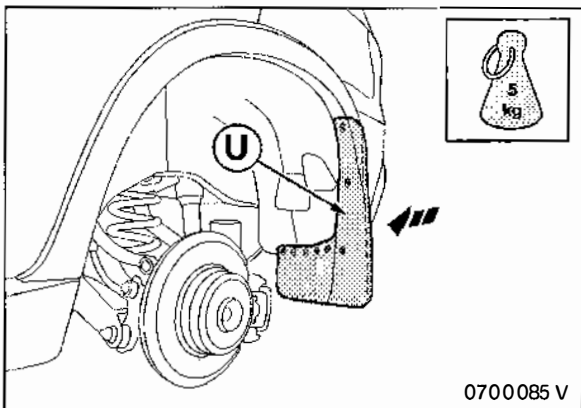
14. Fitting rear mud flaps 20"/21" with Aero package



Secure mud flap **U** using screw **X** from underneath.

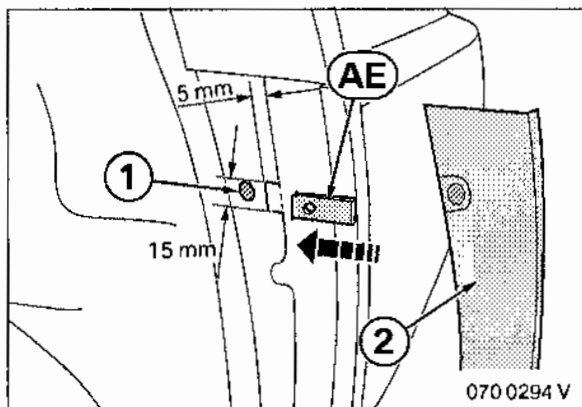


Remove the protective film (1) from the adhesive strip on mud flap **U**.



Press mud flap **U** along its outer contour on the side wall.

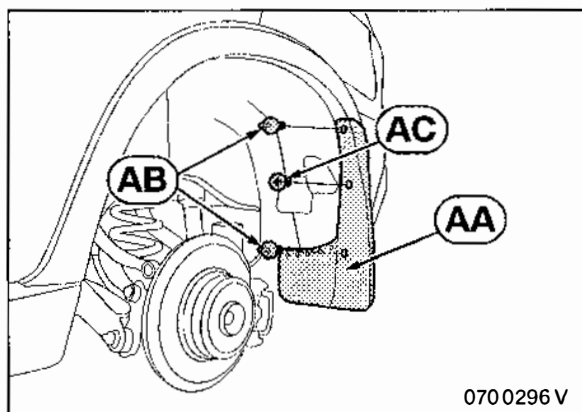
15. Fitting rear mud flaps 20"/21" with M Sport package



Using a suitable tool, create the cut-out for the sheet metal nuts **AE** on the centre securing hole (1) with the dimensions specified.

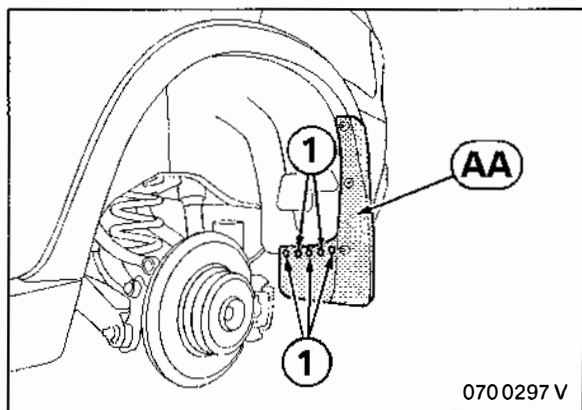
Place sheet metal nut **AE** on the centre securing hole (1) on the wheel arch cover.

Then reinstall the wheel housing extension (2).



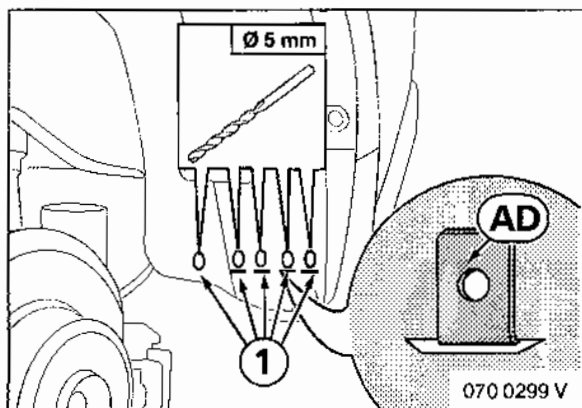
▶ Only place the expanding rivets **AB** in position, do not lock them. ◀

Position mud flap **AA** and hold in place with expanding rivets **AB** and screw **AC**.



Mark out the drill holes (1) on mud flap **AA** in the wheel arch.

Then remove mud flap **AA** again.

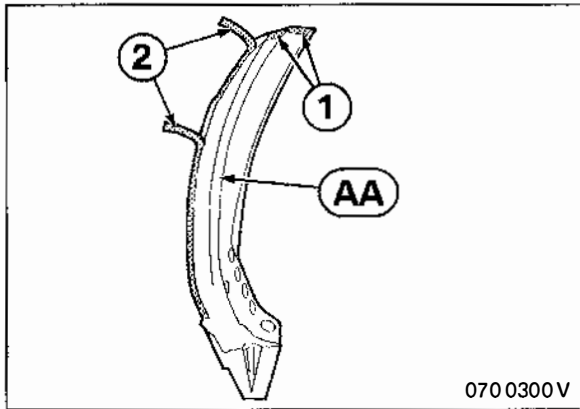


Create a hole (1) of diameter 5 mm.

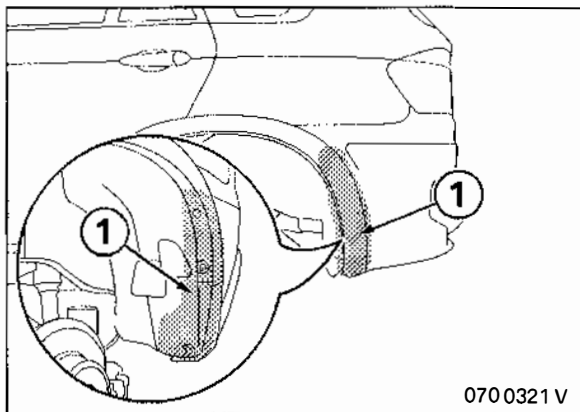
Below the four outer holes (1), create cuts (approx. 10 mm) for the sheet metal nuts **AD** using a knife.

Insert four sheet metal nuts **AD** into the drill holes.

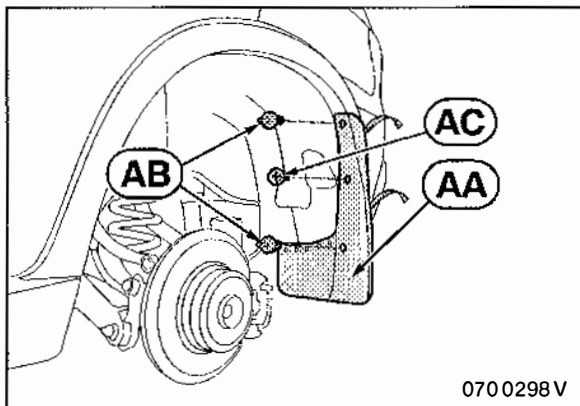
15. Fitting rear mud flaps 20"/21" with M Sport package



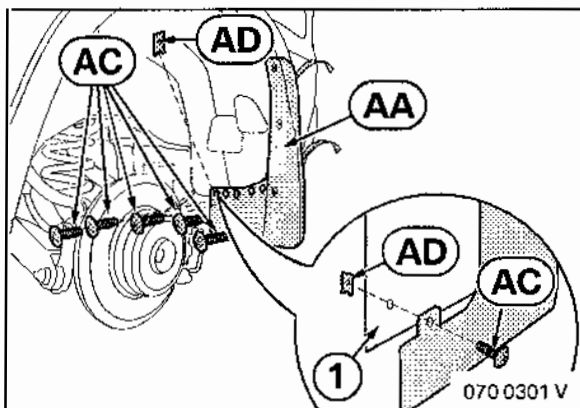
Completely remove the protective film (1) on the adhesive strip, and remove the protective film (2) on the adhesive strip approx. 20 mm from mud flap **AA**.



▶ Bonding surfaces (1) must be cleaned with a cleaner and must be free from grease. ◀

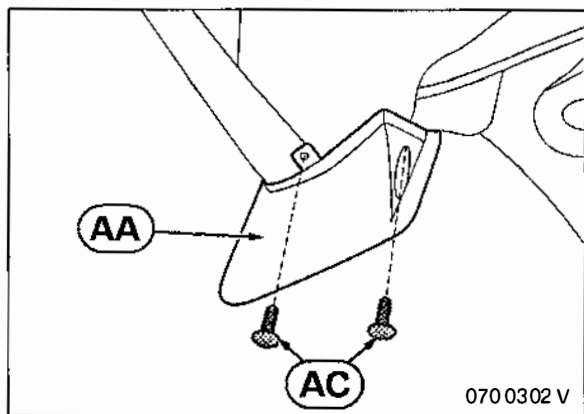


Re-position mud flap **AA** and secure with expanding rivets **AB** and screw **AC**.

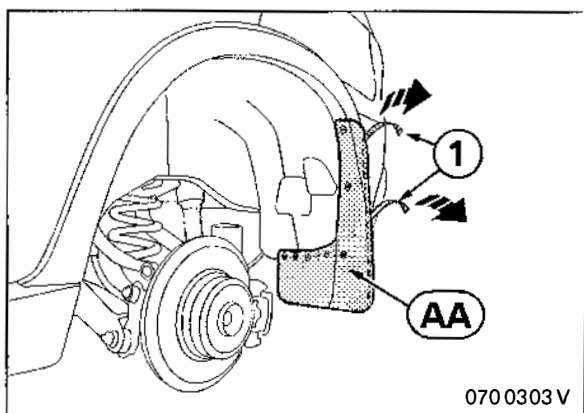


Introduce sheet metal nut **AD** behind the wheel arch (1). Secure mud flap **AA** using self-tapping screws **AC**.

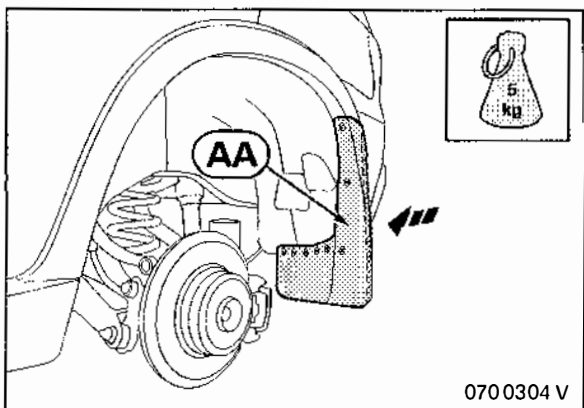
15. Fitting rear mud flaps 20"/21" with M Sport package



Secure mud flap **AA** using screws **AC** from underneath.

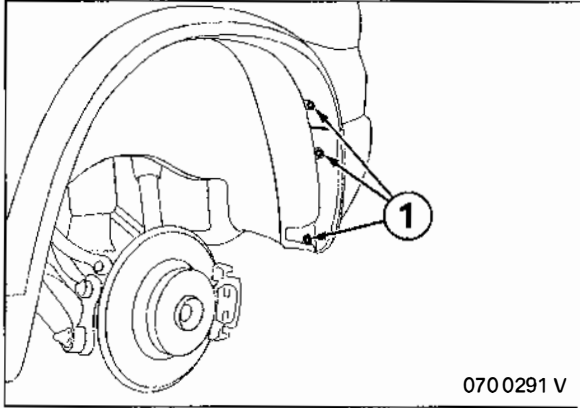


Remove the protective film (1) from the adhesive strip on mud flap **AA**.

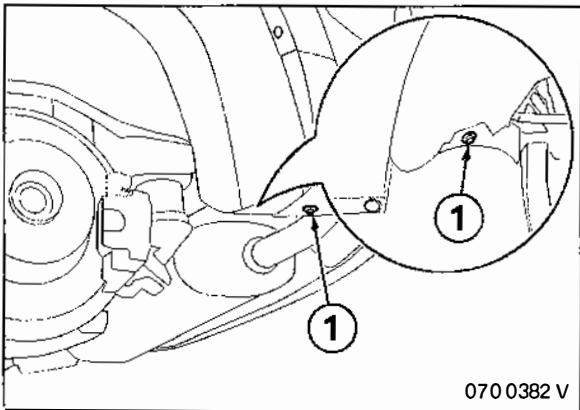


Press mud flap **AA** along its outer contour on the side wall.

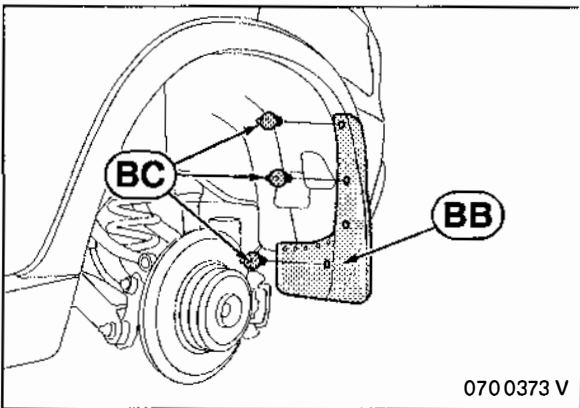
16.Fitting rear mud flap X5M




Remove the existing blind rivets (1) as they are no longer needed.

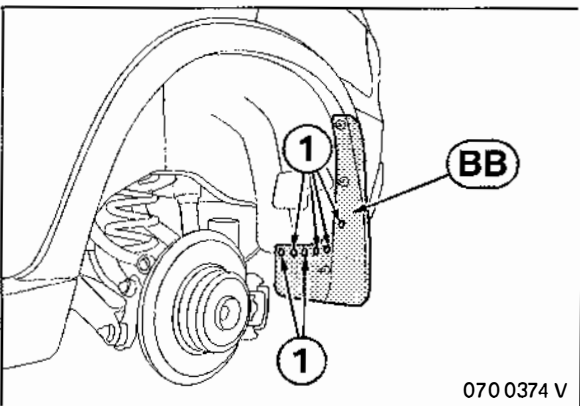


Remove the existing screw (1) as it is no longer needed.



 Only place the expanding rivets **BC** in position, do not lock them. ◀

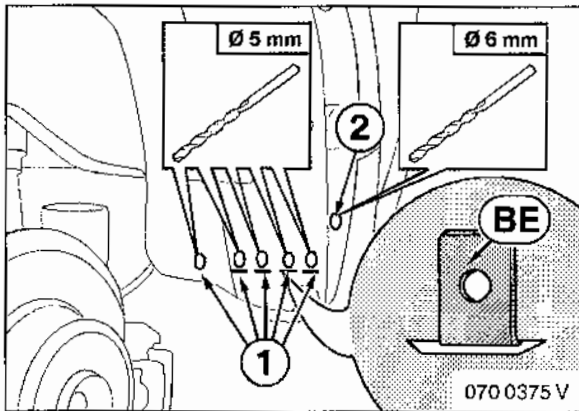
Position mud flap **BB** and hold in place with expanding rivets **BC**.



Mark out the drill holes (1) on mud flap **BB** in the wheel arch.

Then remove mud flap **BB** again.

16. Fitting rear mud flap X5M



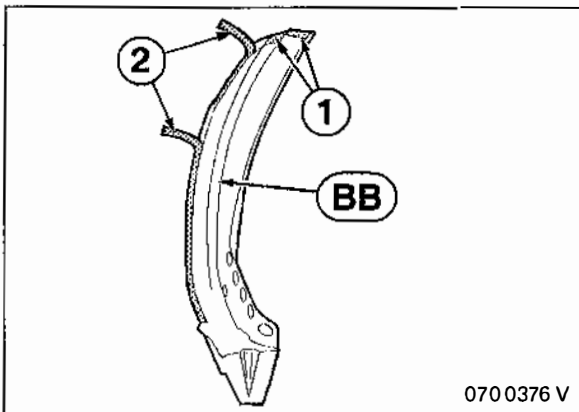
Do not exceed the drilling depth since otherwise you may damage the car. ◀

Create a hole (1) of diameter 5 mm maintaining a maximum drill depth of 5 mm.

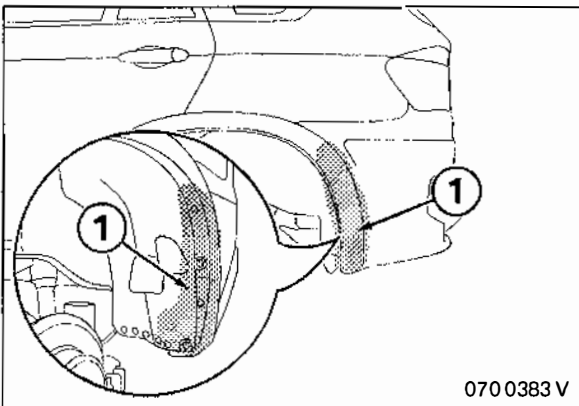
Create a hole (2) of diameter 6 mm maintaining a maximum drill depth of 5 mm.

Below the four outer holes (1), create cuts (approx. 10 mm) for the sheet metal nuts **BE** using a knife.

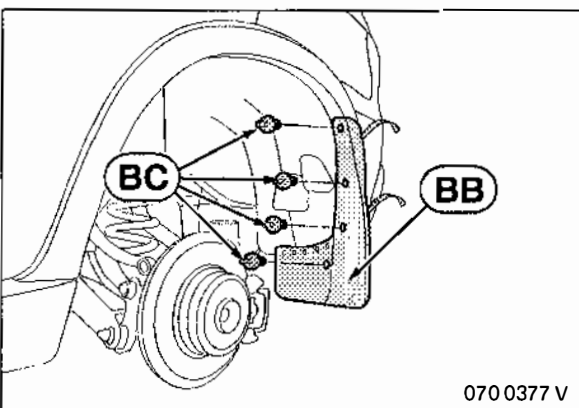
Insert four sheet metal nuts **BE** into the drill holes.



Completely remove the protective film (1) on the adhesive strip, and remove the protective film (2) on the adhesive strip approx. 20 mm from mud flap **BB**.

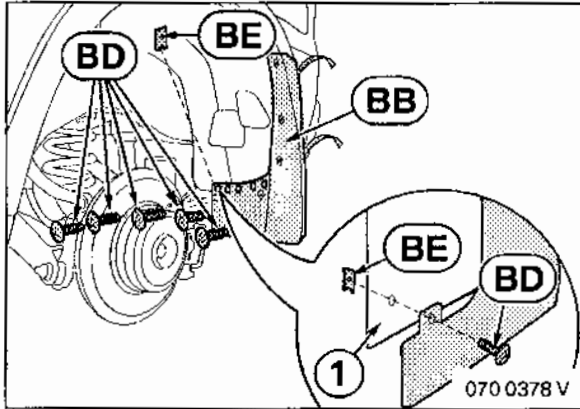


Bonding surfaces (1) must be cleaned with a cleaner and must be free from grease. ◀

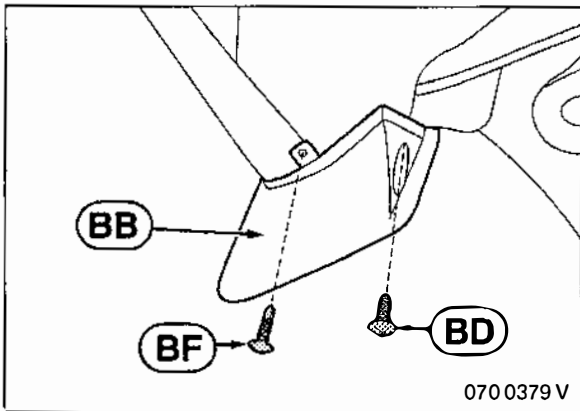


Position the mud flap **BB** and secure with expanding rivets **BC**.

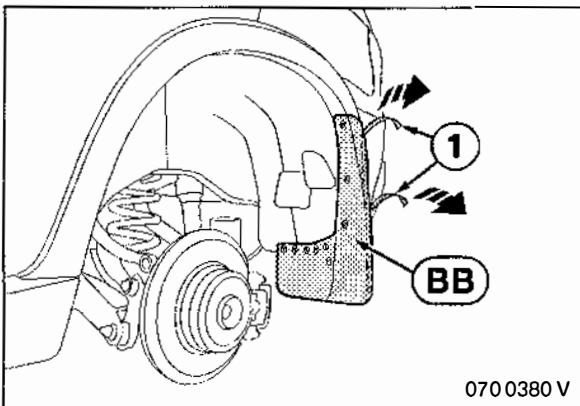
16. Fitting rear mud flap X5M



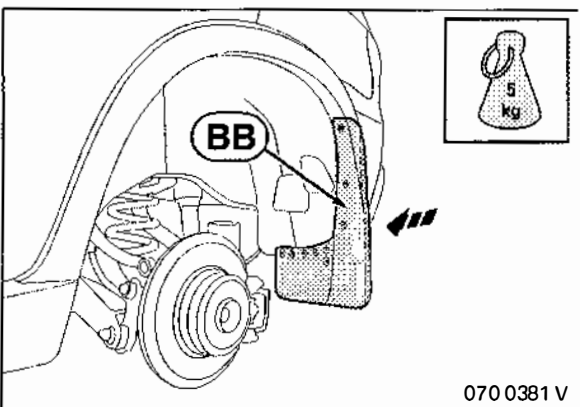
Introduce sheet metal nut **BE** behind the wheel arch (1).
Secure mud flap **BB** using self-tapping screws **BD**.



Secure mud flap **BB** using screw **BD** and self-tapping screw **BF** from underneath.



Remove the protective film (1) from the adhesive strip on mud flap **BB**.



Press mud flap **BB** along its outer contour on the side wall.

17. Concluding work and coding

This retrofit system does not require coding.

- Re-assemble the car