

## Water Ingress at A-pillar

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Topic number	LI77.00-P-063165
Version	2
Function group	77.00 - General
Date	2/1/23
Validity	All model series with sliding roof
Reason for change	Update of repair instructions

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### Complaint

Water ingress at A-pillar.

### Cause

Damaged water drain hose.

### Remedy

- Remove various coverings and linings.
- To check the water drain hose for damage, remove lower drain grommet in area of A-pillar.
- Perform water test to analyze damage part of sliding roof hose.
- If the damaged part is accessible, the water drain hose can be repaired using a connection piece (A000 997 67 69) and does not need to be replaced!
- To restore the original length of the water drain hose, a new water drain hose can be used if necessary.

If it is not possible to repair the hose with the connection piece, the sliding roof hose must be replaced.

Refer to the document "Repair instructions " (see attachment).

Attachments	
File	Description
<a href="#">Drain Hose Replacement Method.pdf</a>	Repair Instructions
<a href="#">Link Connection Hose.pdf</a>	Adapter for Partial Replacement of Sliding Roof Hose

Symptoms
Body > Body/Cab > Body sealing > Water entry
Body > Roof system > Tilting/sliding sunroof system > Leaks

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# XENTRY TIPS

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Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A2046390494			Front water drain hose	1	For partial replacement on left or right	X
A0009976769			Connection piece	1	For partial replacement on left or right	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			78A0504	Left front drain hose. Encode component causing the problem.
			78N0504	Right front drain hose. Encode component causing the problem.

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# Repair of sliding sunroof water drain hose

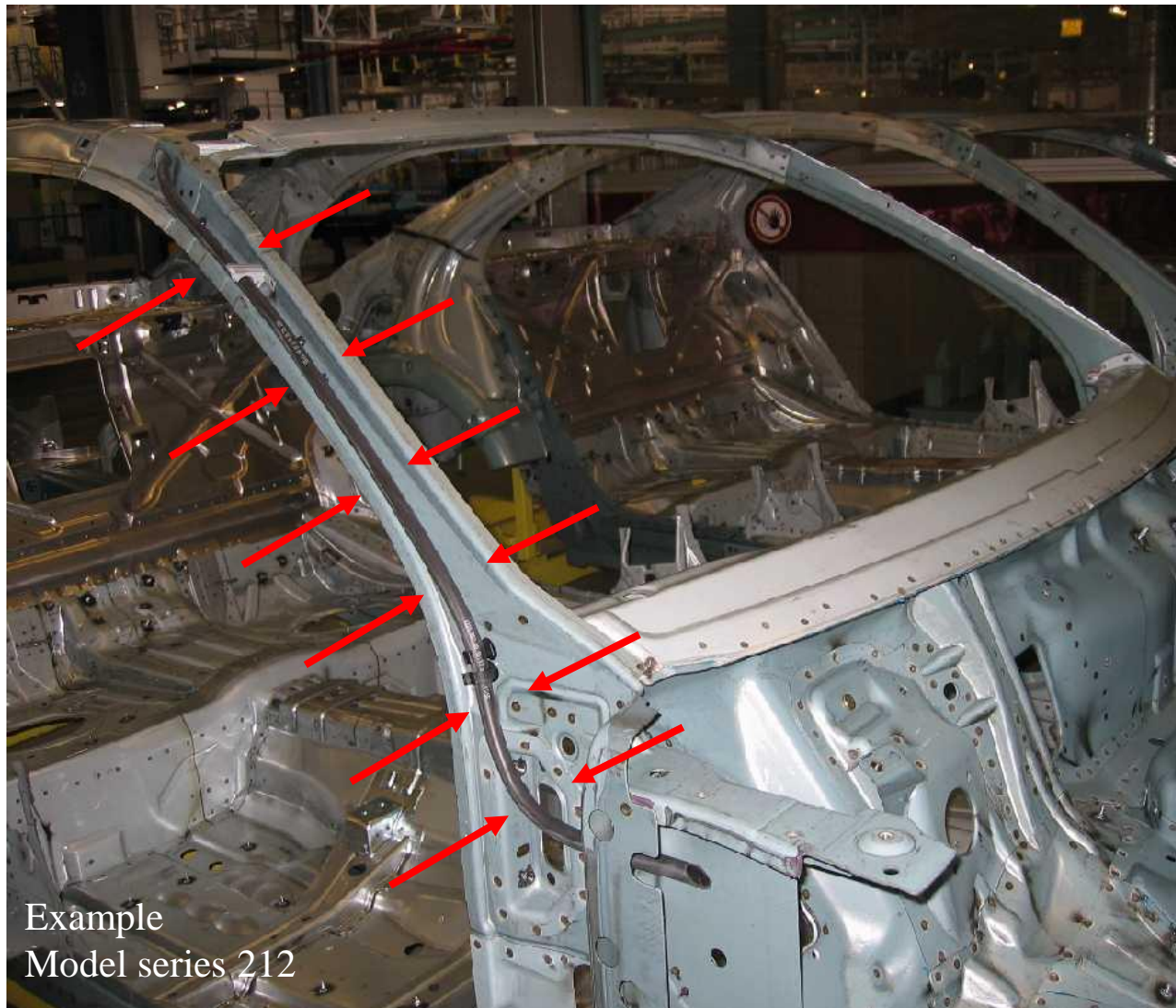
Valid for all model series!



Mercedes-Benz



# Repair of sliding roof water drain hose generally applicable for all model series



This example photo serves to illustrate the location or installation position and the installation space of the sliding roof hose.

Accessibility may vary from model series to model series.

# Preparation of operation steps



## Tool/material:

- Hook
- Heat gun
- Various pliers
- Wire pull
- Threaded union
- Cloth adhesive tape (duct tape)
- Soapy water

# Preparation of operation steps



## Overview of aid examples



Hook



Heat gun



Pliers W103589003700

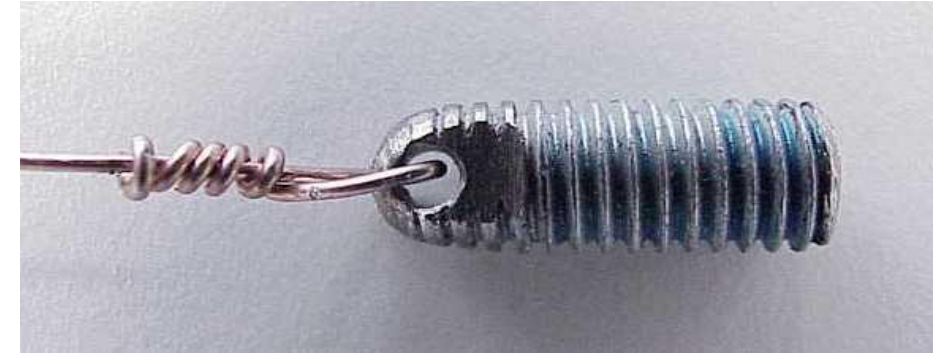


# Preparation of operation steps



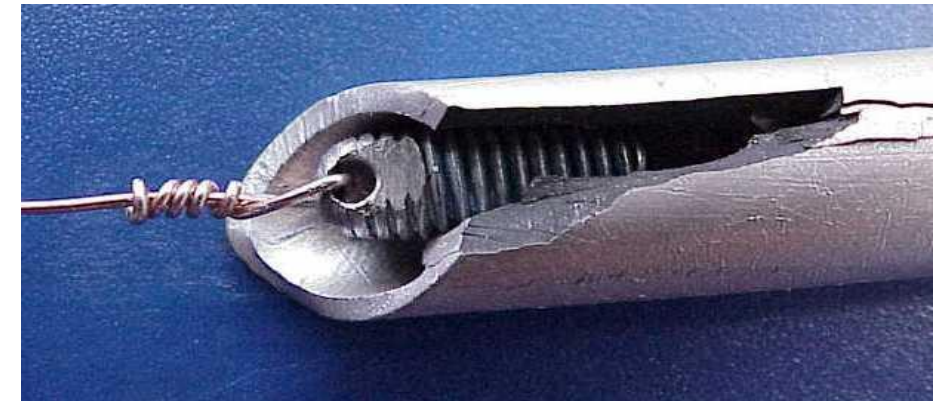
Cut off **threaded union** M8 x 20,  
roughen on both sides and use drill bit to make 3 mm hole.

Attach **wire** approx. 2000 mm long (e.g. from inert gas welder)  
to threaded union.



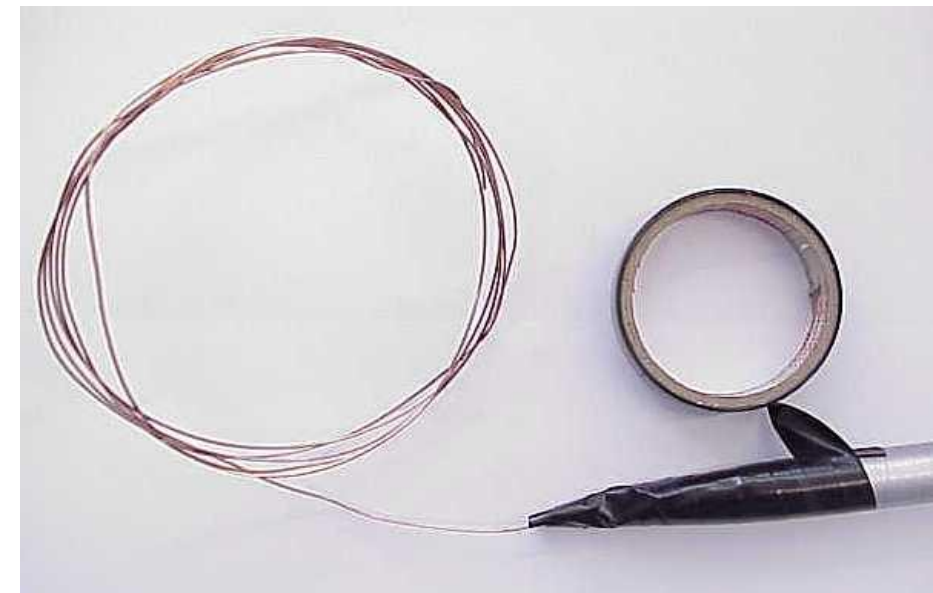
Make a wedge-shaped cut into the end of the sliding roof water  
drain hose.

Insert threaded union.



Fix end of hose into place at cut, overlapping it with  
insulation tape.

Firmly wrap insulation tape around end of hose,  
tapering it towards wire.



# Removal instructions



- Disassemble front fender on side with damage, and the cockpit, then - depending on the condition of the body - dismantle the roof lining too.
- Slide the prepared wire pull through the damaged hose (thin welding wire, 0.9 mm thick). Secure the wire at top and bottom against being pulled out.
- To make it easier to release the omega clips fastened to the hose, they can be heated up.
- Use a heat gun to heat up the sliding roof hose at all the foam pieces (**max. 120° C**), this makes it easier to disassemble (**make sure that the paint or bodysell adhesive are not burnt**)
- Use wire or a hook to pull out the hose through an opening in the wheel well or an opening in the A-pillar.
- The use of commercially available pliers may damage the hose to such an extent that it can then no longer be grasped. Therefore, where possible, use W103 589 00 37 00.
- By pulling carefully in the footwell or in the wheel well, pull the hose out of the foam piece on the A-pillar.
- Detach the hose from the wire pull by cutting through it. Now attach a new piece of wire with  $\varnothing$  2.5 mm to the wire pull on the A-pillar.

(see following pictures)



## Example illustration for model series 167



The water drain hose is foamed-in to the longitudinal member



Disassemble front fender on side with damage, and the cockpit, then - depending on the condition of the body - dismantle the roof lining too.



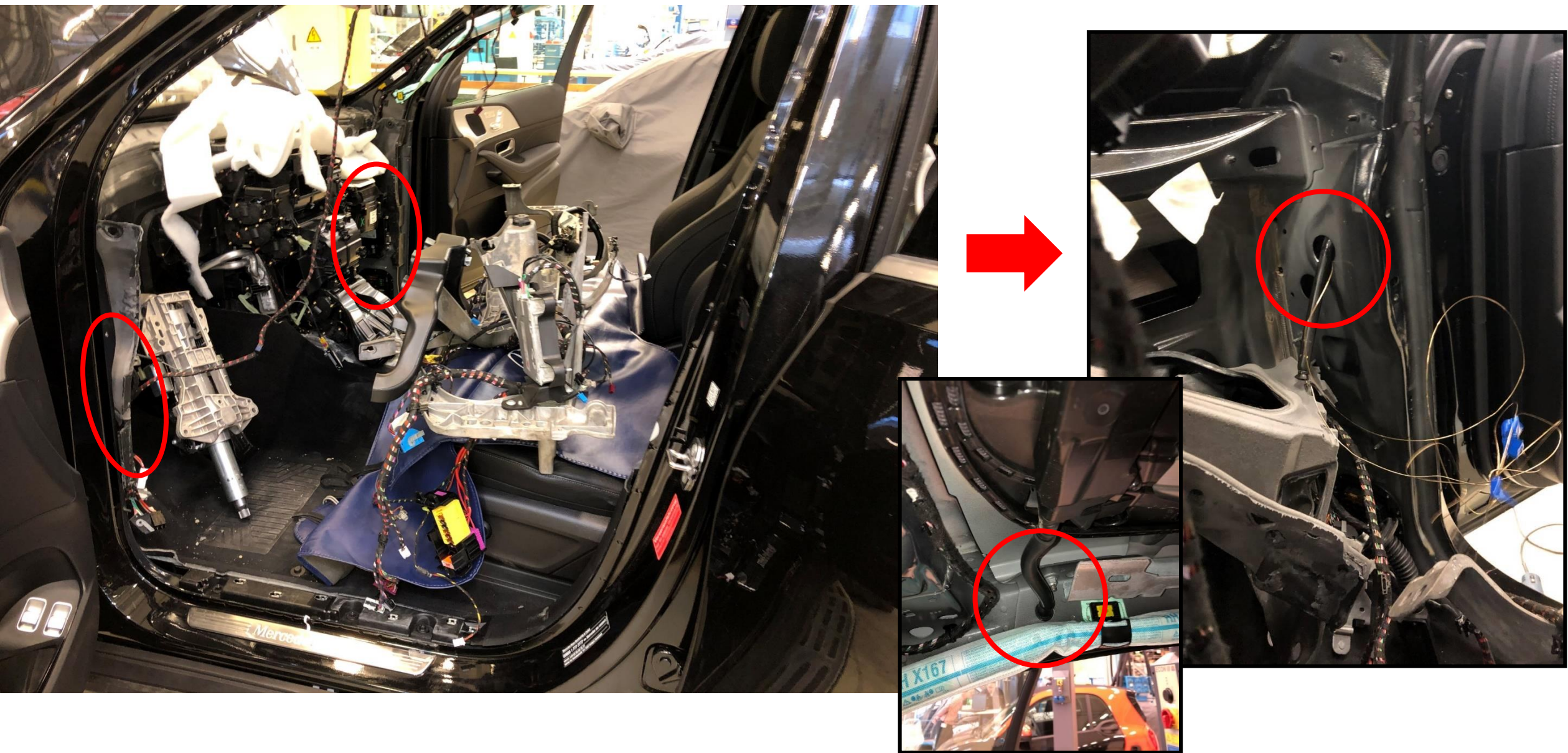
## Example illustration for model series 167



Use a heat gun to heat up the sliding roof hose at all the foam pieces (**max. 120° C**), this makes it easier to disassemble (**make sure that the paint or bodyshell adhesive are not burnt**)



# Example illustration for model series 167



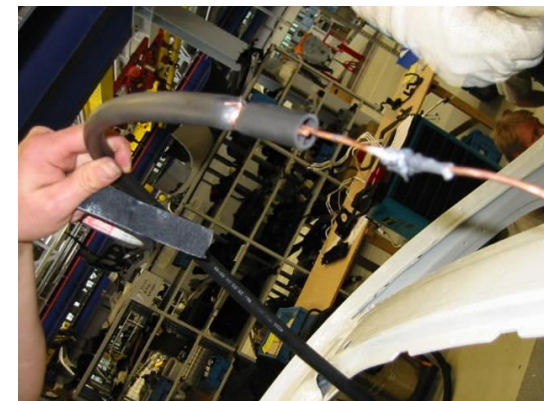
Use wire or a hook to pull out the hose through an opening in the wheel well or an opening in the A-pillar.



# Installation instructions



- Pull the new piece of wire, which must have an attachment point at its end, from top to bottom.
- Fasten the new hose onto the threaded pin using thin binding wire and wrap tape around it so that it does not get caught up when being pulled in.
- Coat the wire with soapy water when pulling in.
- Use the wire pull to pull the hose into the A-pillar from top to bottom.
- Use an endoscope to make sure that the hose does not have any blockages or kinks in it.
- Once the hose exits at the designated opening on the A-pillar, the tape, binding wire and wire pull must be removed again.
- Mount front fender and cockpit again.
- Check and acceptance to be conducted by supervisory personnel.
- Then run a water test to check that the connections are watertight.



## **Note:**

The water drain hose in the C-pillar can also be changed using this method.

## Hose Connection Fitting

