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## Odor from the air conditioning

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Topic number	LI83.30-P-059119
Version	1
Design group	83.30 Air conditioning
Date	05-28-2014
Validity	Model series 166
Reason for change	
Reason for block	

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**Complaint:**

Stale odor from the air conditioning

Attachments	
File	Description
Customer and workshop feedback.pdf	Customer and workshop feedback

**Cause:**

Oxidation products of the cavity preservation can enter the interior compartment via the air conditioning.

**Remedy:**

Please obtain information from the attachment "Customer and workshop feedback" (1.1, 1.2 and 2.1)

The document "Climate control diagnostic tree.pdf" should be used to help in the identification of the odor.

After confirmation of odor, the repair can be performed by following the steps below:

- Remove A-pillar paneling on left and right
- Close bodyshell hole (1) with a stop plug as per "Repair instructions TIPS.pdf"
- Install A-pillar paneling on left and right
- Remove interior trim at right and left entrances
- Tape up bodyshell holes (4, 5, 6) as per "Repair instructions TIPS.pdf" (trim adhesive tape to size as required)
- Install interior trim at right and left entrances
- Remove covers under instrument panel
- Remove glove box
- Close bodyshell holes (2, 3) with stop plugs as per "Repair instructions TIPS.pdf"
- Remove radar sensors control unit
- Remove Night View Assist control unit
- Remove front SAM control unit
- Remove foam piece
- Tape up bodyshell holes (7, 8) as per "Repair instructions TIPS.pdf" (trim adhesive tape to size as required)
- Seal off bodyshell holes (9, 10) with seam sealant as per "Repair instructions TIPS.pdf". To apply the seam sealant, fit the hose on the cartridge nozzle and pass it through the bodyshell hole (9, 10).
- Replace combination filter
- Install control units
- Install glove box
- Install cover under instrument panel
- Replace dust filter for heater/ventilation
- Clean evaporator of air conditioning system in the installed position as per AR83.30-P-5555GQ and using only 2 liters of warm tapwater (do not use the ContaSept disinfectant!)

- Clean interior compartment using "ultrasonic atomizer"
- Read out and erase fault memory
- Check for effectiveness of odor remediation, enter results in document "Customer and workshop feedback.pdf" under 2.2
- Residual odor may remain for up to 2 weeks until the odor causing particles are completely removed from HVAC system.
- If the results are not effective, please create a PTSS case with the customer feedback form attached.

Attachments	
File	Description
Climate control diagnostic tree.pdf	Climate control diagnostic tree
Repair instruction TIPS.pdf	Repair instructions

Symptoms
Body / Air conditioning / Air conditioning / Odor

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 001 998 81 50			Stop plug (40 mm)	4	2 plugs on each side of vehicle	X	
A 003 997 55 86			Stop plug (20 mm)	4	1 plug on each side of vehicle, 2 spare	X	
A 006 989 30 85			Adhesive tape (46 mm)	10	5 pieces on each side of vehicle	X	
A 166 830 03 18			Combination filter	1		X	
A 166 830 02 18			Dust filter	1		X	
A 009 989 82 71			Ultrasonic agent	1	The use of this agent is essential	X	
A 005 989 63 20		9678	Seam sealant	1	Only use this material	X	
A 010 997 89 82			Hose	1	Order approx. 30 cm	X	

WIS-References			
Document number	Title	Note	Allocation
AR68.30-P-4050WX	Remove/install trim on A-pillar		Parts
AR68.30-P-4100GQ	Remove/install door sill		Parts
AR68.10-P-1500GQ	Remove/install cover below instrument panel (left)		Parts
AR68.10-P-1520GQ	Remove/install cover below instrument panel (right)		Parts
AR68.10-P-1400GQ	Remove/install glove box		Parts
AP83.00-P-8381GQ	Replace dust filter for heater/ventilation		Remedy

AR54.65-P-0040GQ	Remove/install radar sensors control unit	With code 233, 237, 238	Parts
AR54.30-P-3100GQ	Remove/install Night View Assist control unit	With code 610	Parts
AR54.21-P-1254GQ	Remove/install front SAM control unit		Parts
AR83.30-P-5555GQ	Clean evaporator		Remedy
AD00.00-P-2000-04A	Connect STAR DIAGNOSIS, read out fault memory		Parts
AR83.00-P-8384GZ	Replace combination filter		Remedy

Validity		
Vehicle	Engine	Transmission
166.003	*	*
166.004	*	*
166.023	*	*
166.024	*	*
166.055	*	*
166.056	*	*
166.057	*	*
166.058	*	*
166.062	*	*
166.073	*	*
166.074	*	*
166.823	*	*
166.824	*	*
166.856	*	*
166.872	*	*
166.873	*	*
166.874	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
166.003	651.960	722.908
166.004	651.960	722.908
166.023	642.826	722.903
166.023	642.826	725.031
166.024	642.826	722.903
166.024	642.826	725.031
166.055	276.955	722.906
166.056	276.821	722.904
166.057	276.955	722.906
166.058	276.955	722.906

# XENTRY

166.062	276.821	722.904
166.073	278.928	722.909
166.073	278.928	725.031
166.073	278.928	725.032
166.074	157.982	722.905
166.074	157.982	722.931
166.823	642.826	722.903
166.823	642.826	725.031
166.824	642.826	722.903
166.824	642.826	725.031
166.856	276.821	722.904
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.872	278.928	725.033
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.873	278.928	725.033
166.874	157.982	722.905
166.874	157.982	722.931



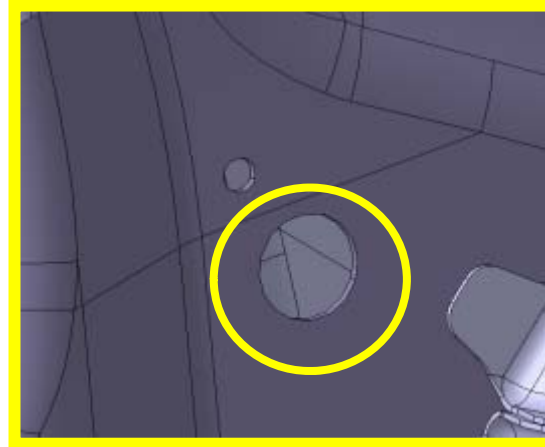
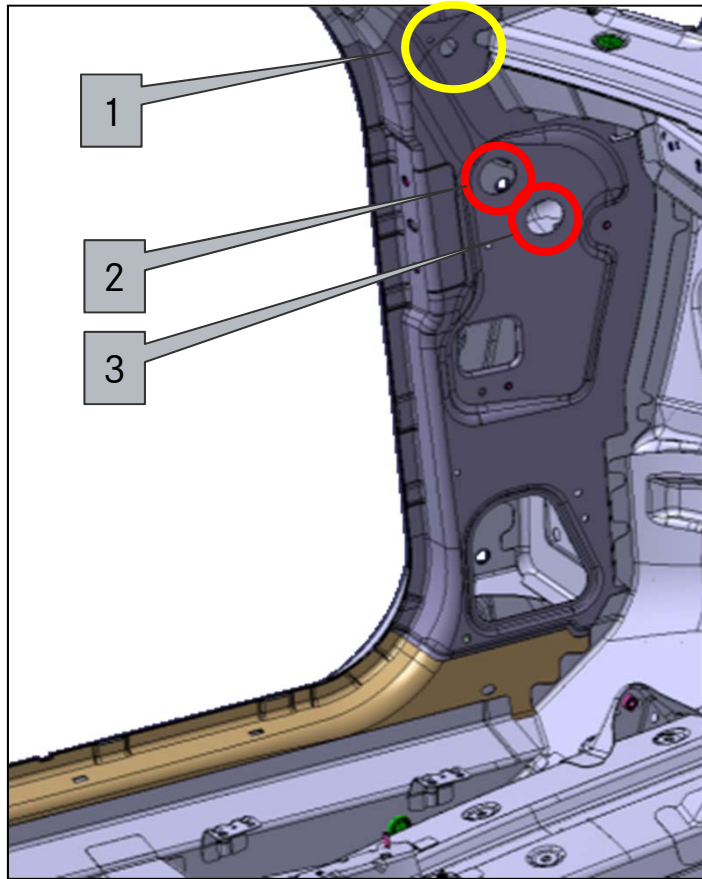
# Repair Instruction

Odor from the air condition at series 166

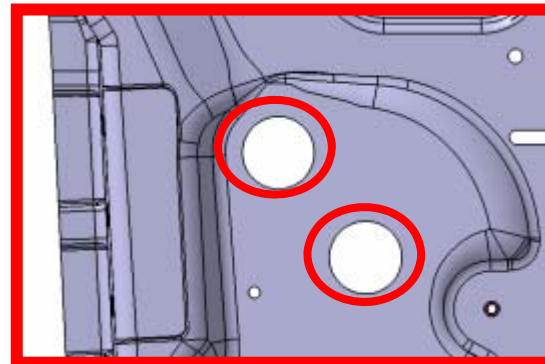


Mercedes-Benz

# Close holes (1, 2, 3) with plugs

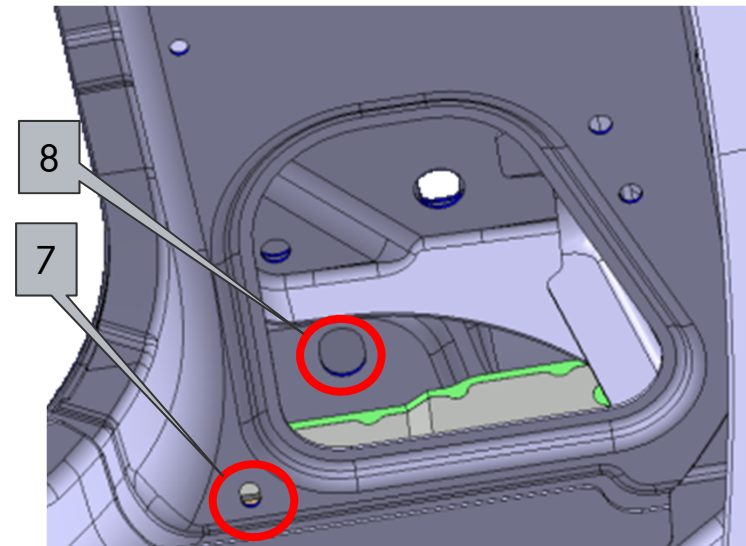
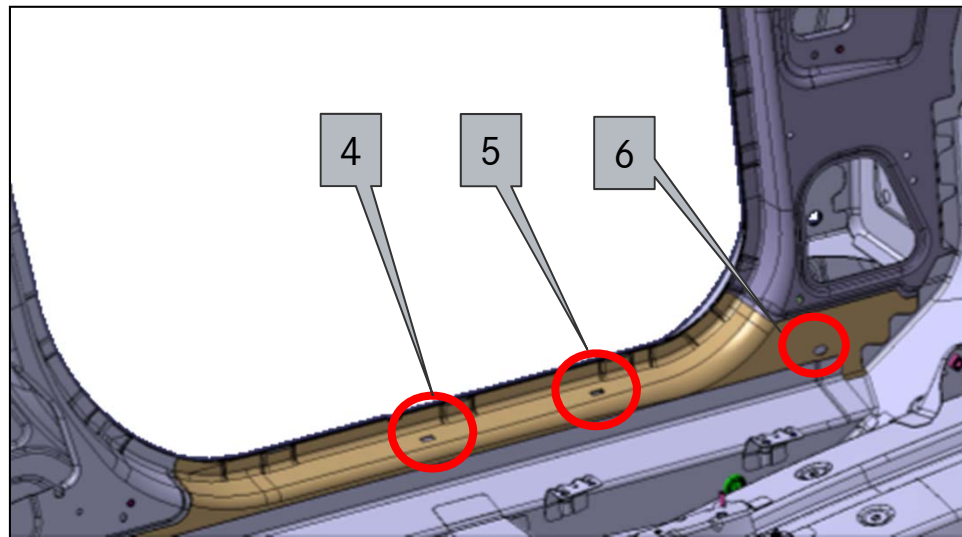


A 003 997 55 86  
Ø 20 mm

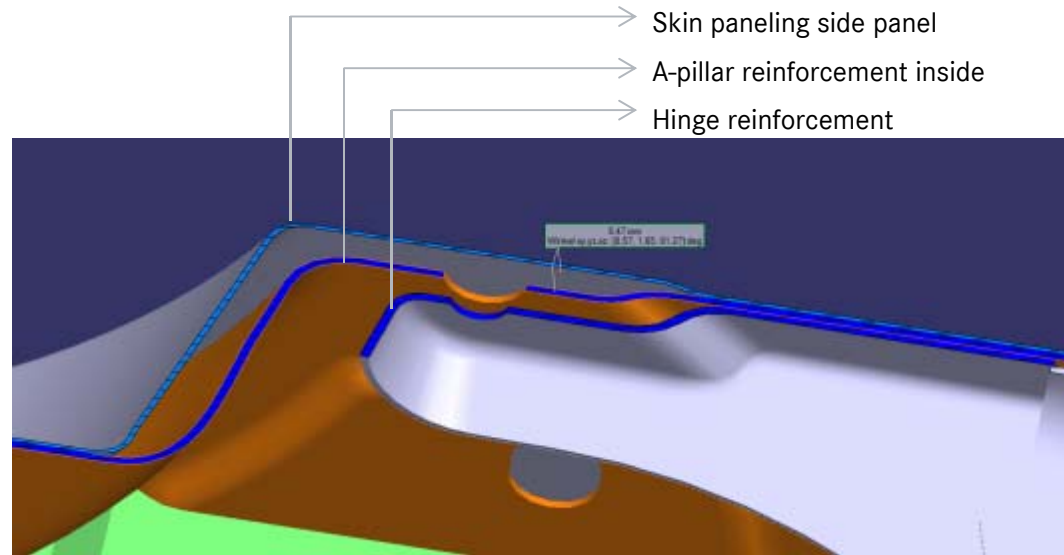
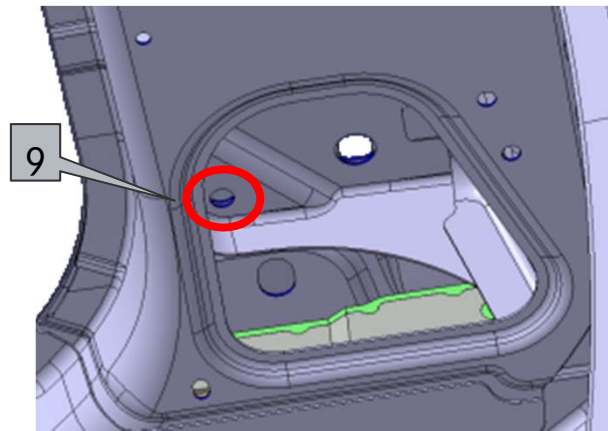


A 001 998 81 50  
Ø 40 mm

Close holes (4, 5, 6, 7, 8) with tape A 006 989 30 85

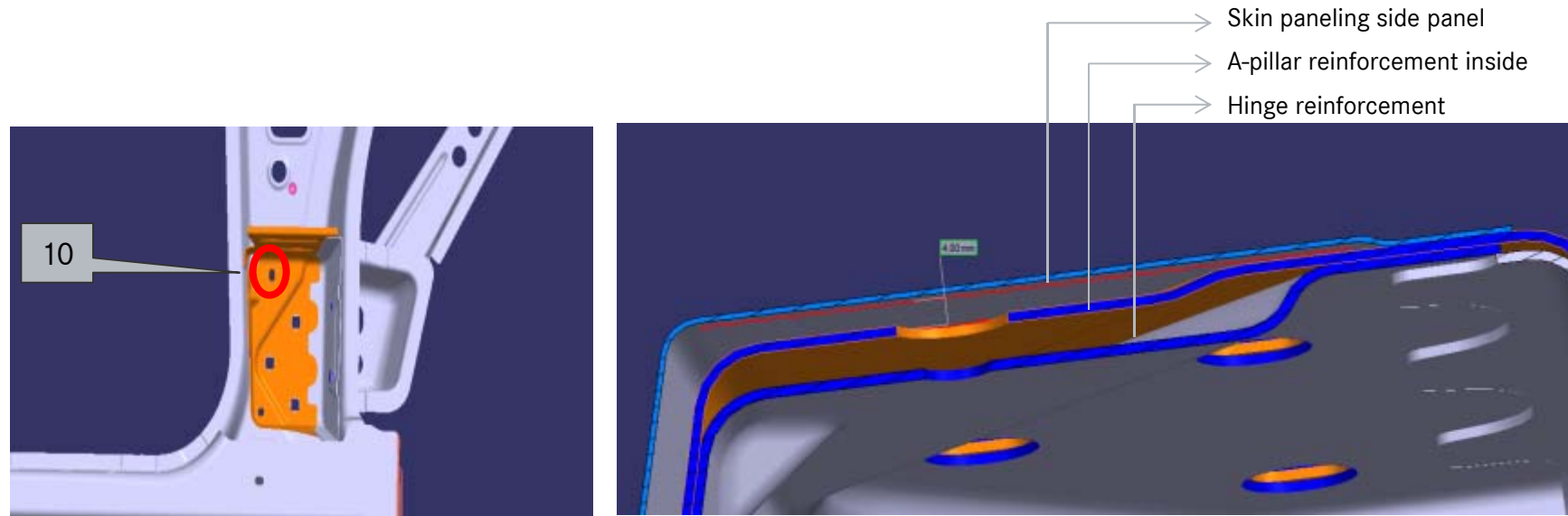


# Close hole (9) with sealing A 005 989 6320



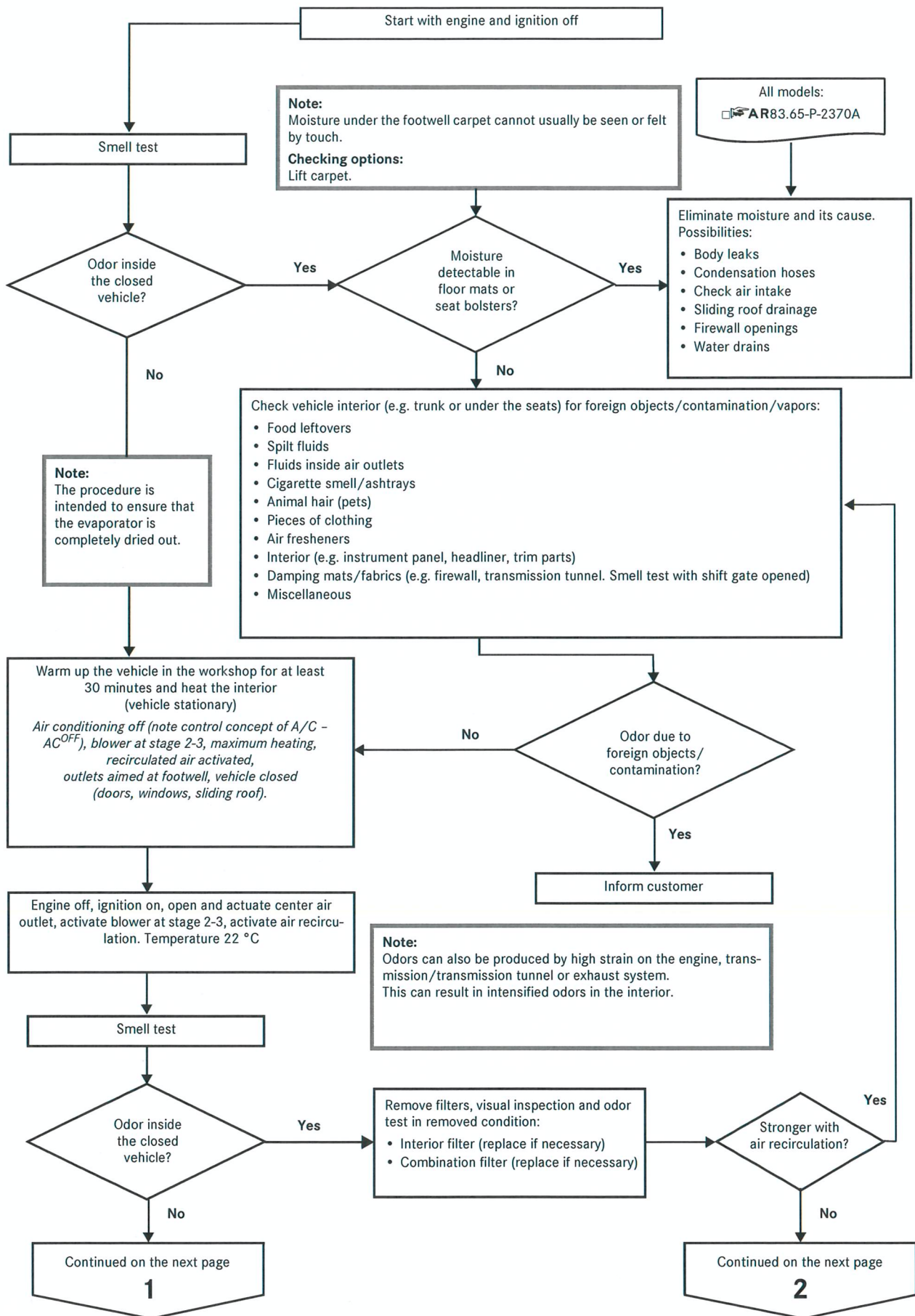
Lead hose through the hole (9) to the skin paneling side panel. Pull out the hole slowly and apply sealing material until the cavity between the panels is completely filled.

# Close hole (10) with sealing A 005 989 6320

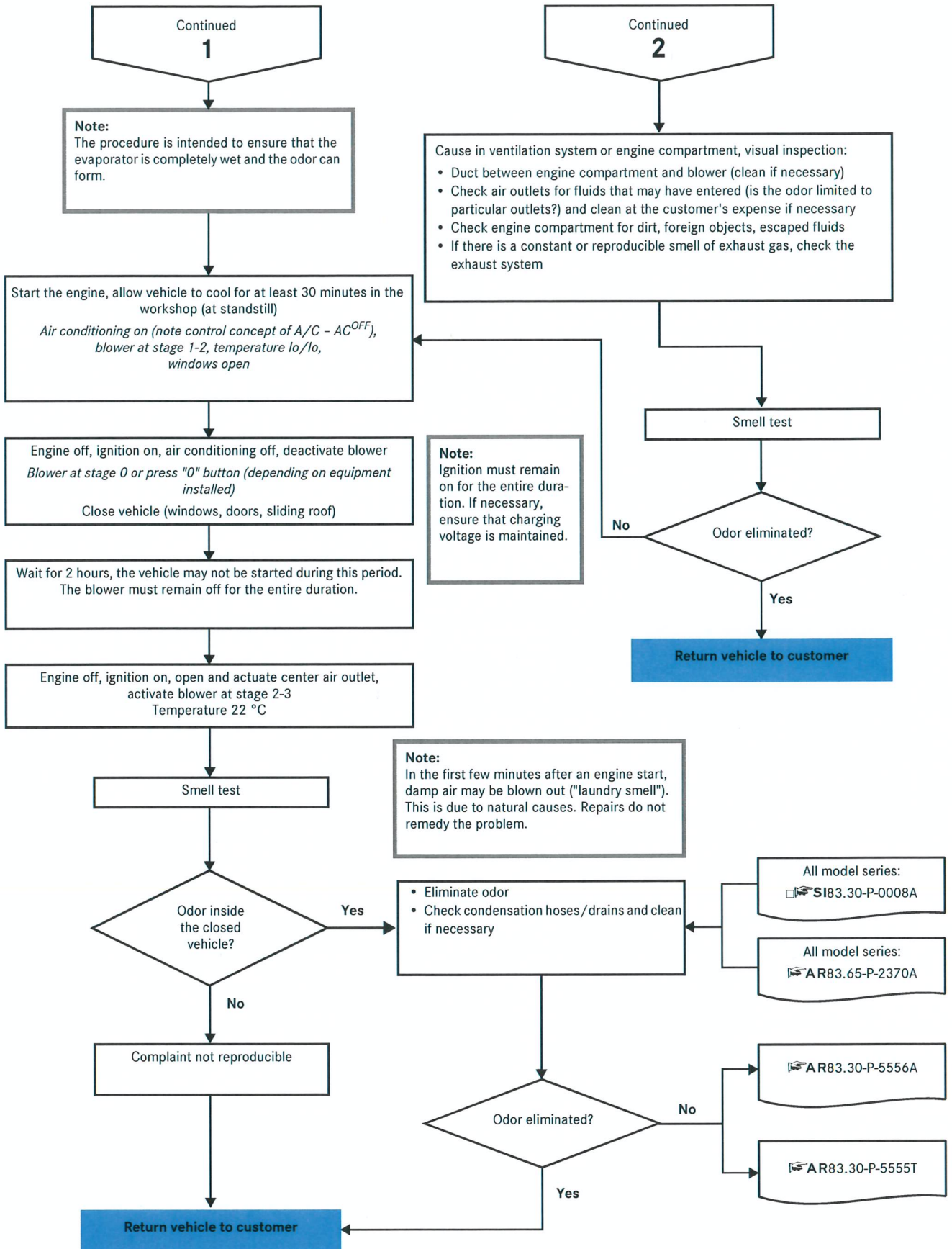


Lead hose through the hole (10) to the skin paneling side panel. Pull out the hole slowly and apply sealing material until the cavity between the panels is completely filled.

## II: AAC odor complaint



## II: AAC odor complaint



VIN	Registration Date	Repair Date	Kilometer

## 1. Customer feedback about „Odor from the A/C“

### 1.1 Occurrence of odor

Time	Motor	A/C	Blower speed	Ride	Outside temp.
<input type="checkbox"/> start	<input type="checkbox"/> on	<input type="checkbox"/> on	<input type="checkbox"/> low	<input type="checkbox"/> city	<input type="checkbox"/> warm
<input type="checkbox"/> during	<input type="checkbox"/> off	<input type="checkbox"/> off	<input type="checkbox"/> medium	<input type="checkbox"/> overland	<input type="checkbox"/> cold
<input type="checkbox"/> end			<input type="checkbox"/> high	<input type="checkbox"/> highway	

### 1.2 Type of odor

Natural	Physical	Material
<input type="checkbox"/> sweet	<input type="checkbox"/> acrid	<input type="checkbox"/> plastic
<input type="checkbox"/> sour	<input type="checkbox"/> refreshing	<input type="checkbox"/> rubber
<input type="checkbox"/> burned	<input type="checkbox"/> pungent	<input type="checkbox"/> PVC
<input type="checkbox"/> dry	<input type="checkbox"/> throating	<input type="checkbox"/> solvent
<input type="checkbox"/> humid	<input type="checkbox"/> lachrymatory	<input type="checkbox"/> tar
<input type="checkbox"/> moldy	<input type="checkbox"/> muffled	<input type="checkbox"/> leather
<input type="checkbox"/> fishy	<input type="checkbox"/> nauseating	<input type="checkbox"/> new car
<input type="checkbox"/> rotten		
<input type="checkbox"/> oily		
<input type="checkbox"/> earthy		
<input type="checkbox"/> fruity		
<input type="checkbox"/> excrement		

VIN	Registration Date	Repair Date	Kilometer

## 2. Workshop feedback about „Odor from the A/C“

### 2.1 Climate-Check

Causes	Yes	No
Odor in closed vehicle	<input type="checkbox"/>	<input type="checkbox"/>
Foreign matter/ Contamination in the interior	<input type="checkbox"/>	<input type="checkbox"/>
Foreign matter/ Contamination in the boot	<input type="checkbox"/>	<input type="checkbox"/>
Foreign matter/ Contamination in the engine bay	<input type="checkbox"/>	<input type="checkbox"/>
Condensation tubes/ drains clean	<input type="checkbox"/>	<input type="checkbox"/>
Justified complaint	<input type="checkbox"/>	<input type="checkbox"/>

### 2.2 Effectiveness examination

	i.O.	n.i.O.
Ignition on – Motor off – A/C off – Air circulation (2 – 3 minutes)	<input type="checkbox"/>	<input type="checkbox"/>
Motor on – A/C on – Air circulation (2 – 3 minutes)	<input type="checkbox"/>	<input type="checkbox"/>
Ignition on – Motor off – A/C off – Air circulation (2 – 3 minutes)	<input type="checkbox"/>	<input type="checkbox"/>