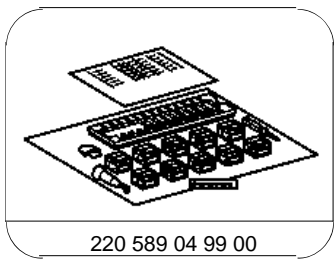


OV00.01-P-1001-28FBA	Abbreviations of signal and circuit designations for wiring diagrams		
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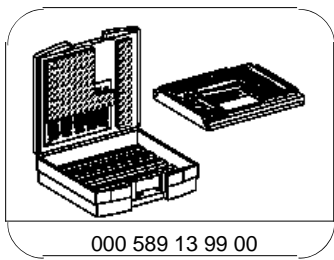
**MODEL 205**

Abbreviation	Designation	Notes
15	Circuit 15	
30	Circuit 30	
30L	Circuit 30 (left)	
30R	Circuit 30 (right)	
30c	Circuit 30c	
31	Circuit 31	
31L	Circuit 31 (left)	
31R	Circuit 31 (right)	
50	Circuit 50	
50 (Shut Down)	Circuit 50	
54	Circuit 54	
55	Circuit 55	
58	Circuit 58	
85	Circuit 85	
86	Circuit 86	
87	Circuit 87	
-	Ground connection	
- (+)	Motor, right, left-hand rotation	
(-)	Ground connection	
(-)_REL Y	Ground	
(-)_REL_SCRCM	Ground	
(-)_REL1	Ground	
(+)	Voltage supply	
-(+)	Motor, right, left-hand rotation	
+(-)	Motor, left, right-hand rotation	
(+/-)	Motor, right, left-hand rotation	
(+) 5V	Power supply 5Volt	
(+) SV	Power supply 5Volt	
(+)_BC_R_REL	Actuation of relay	
(+)_POWER-	Voltage supply	
(+)_REL Y	Actuation	
(+)_REL1	Actuation	
(+)_REL3	Actuation	
49L	Circuit 49L	
49LR	Circuit 49LR	
_50 (-)	Actuation of relay for terminal 50, starter (negative)	
_50 (+)	Actuation of relay for terminal 50, starter (positive)	
58d	Circuit 58d	
87M	Circuit 87M	
_87M	Circuit 87M	
_Hyb (-)	Hybrid (-)	
_Hyb (+)	Hybrid (+)	
+	Voltage supply	
+ (-)	Motor, left, right-hand rotation	
+12V	Power supply 12Volt	
+5V	Power supply 5Volt	
115V AC1	115 Volt	
115V AC2	115 Volt	
12V	Power supply 12Volt	
12V LIN B8-	Power supply 12Volt LIN	
15/87	Circuit 15/87	
15R	Circuit15R	
2_SR_Li	Left rear compartment lamp	
2_SR_Re	Right rear compartment lamp	
230V AC1	230 Volt	
230V AC2	230 Volt	
30 Lade.	Circuit 30	
30 rechts	Circuit 30	
30 ung.	Circuit 30	
30_1	Circuit 30_1	



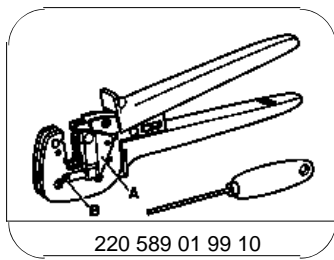
220 589 04 99 00

New passenger vehicle wiring harness repair kit



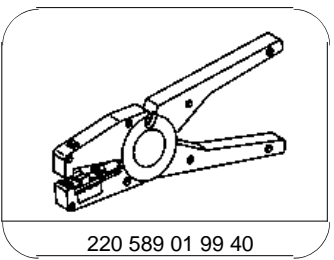
000 589 13 99 00

Wiring harness repair kit, basic



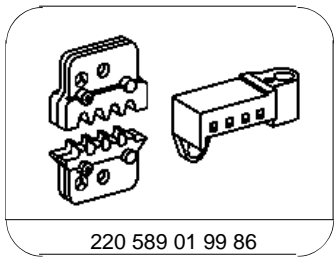
220 589 01 99 10

Crimp pliers



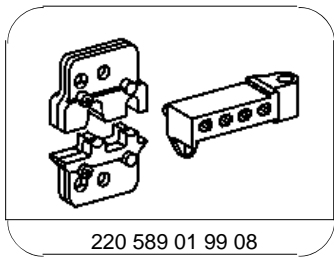
220 589 01 99 40

Wire stripper



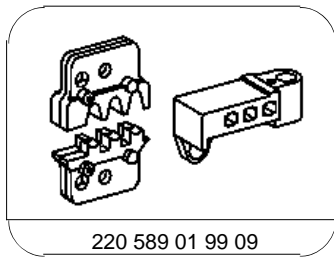
220 589 01 99 86

MQS ELA crimping set



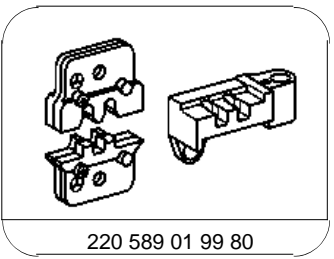
220 589 01 99 08

SLK 2.8 / ELA crimping set



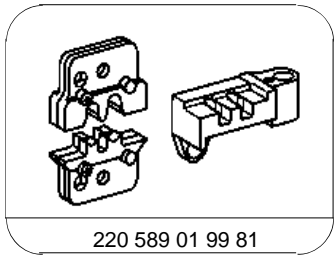
220 589 01 99 09

SLK 2.8 ELA crimping set



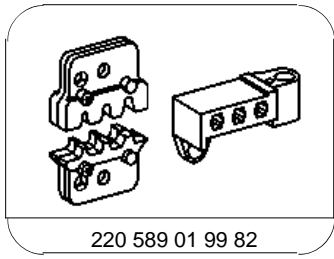
220 589 01 99 80

MCP 2.8 ELA crimping set



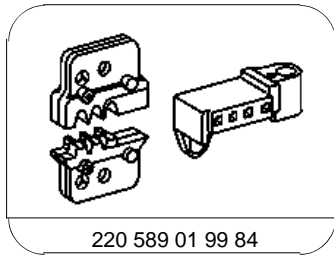
220 589 01 99 81

MCP 2.8 ELA crimping set



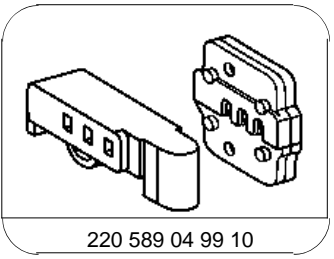
220 589 01 99 82

JPT ELA crimping set



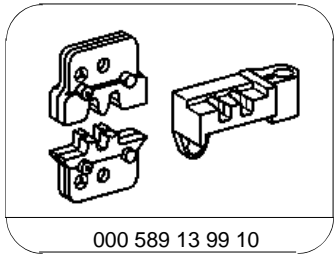
220 589 01 99 84

MLK 1.2 ELA crimping set



220 589 04 99 10

MCP 1.2 ELA crimping set

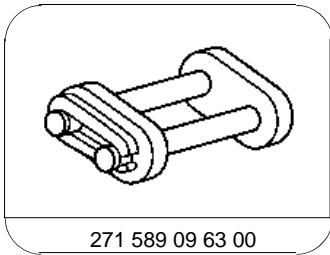


000 589 13 99 10

MCP 2.8 ELA crimping set


**Table of stripping lengths**

Contact family	Cable cross-section	Length stripped of insulation
All	up to 1.5 mm <sup>2</sup>	4 mm ±0.3
All	1.5 to 4 mm <sup>2</sup>	5 mm ±0.3

**ENGINE 133, 270, 274**


271 589 09 63 00


Assembly element

**i** The  assembly link (01) is required to pull in the timing chain.

- 1 Cover over timing case slot with a clean rag.

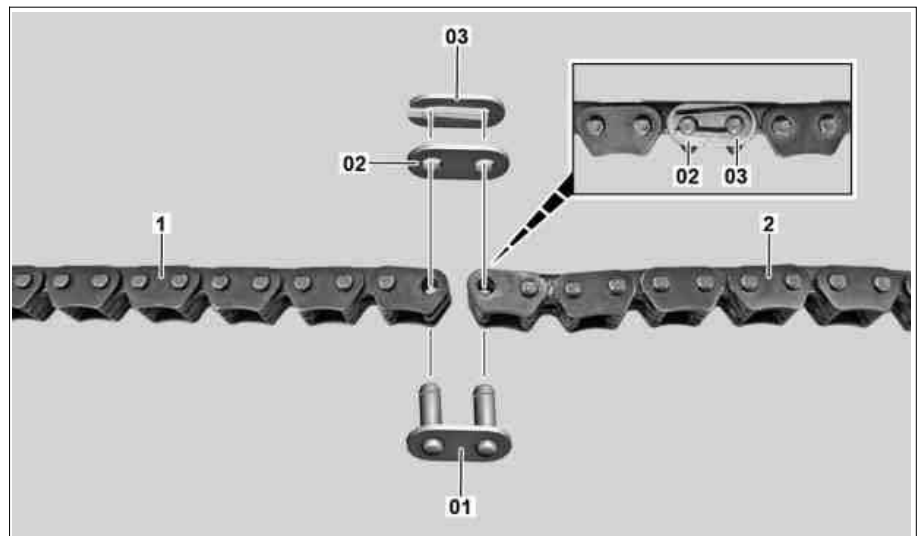
**i** The timing case recess must be secured against parts which are falling down. Parts which have fallen into the timing case recess, must be removed.

- 2 Connect new timing chain (2) and old timing chain (1) together using  the assembly link (01).

**i** Fit lock on  assembly link (01) in the direction opposite to that in which the timing chain is drawn; otherwise it could get jammed on the slide rails and come off when the timing chain is drawn.

- 3 Remove rags from timing case recess.

**i** Otherwise, they could get pulled into the timing case recess when the engine is cranked.



P05.10-2525-05

**ENGINE ALL**  
with CODE (U42) BlueTEC diesel exhaust treatment (SCR), with CODE (MC7) Engine OM 642 D 30 BlueTEC

One-way filling hose



P00.00-4715-01

**i** The following filling options are now available with immediate effect:

**One-way filling hose (picture):**

This hose has a locking mechanism which enables drip-free filling to be performed. The fixed connection between the can and the AdBlue<sup>®</sup> container prevents any overfilling.

1 Screw one-way filling hose onto AdBlue<sup>®</sup> refill can.

**i** The one-way hose remains closed until it is fastened to the vehicle's AdBlue<sup>®</sup> filler neck.

2 Fit one-way filling hose to vehicle filler neck.

3 Screw on finger-tight in clockwise direction.

**i** Do not tighten the one-way filling hose too much. Once a resistance is felt, the one-way filling hose is sufficiently tightened.

4 Lift can and place to one side. It may be necessary, to move the can to this position to enable the filling process to be performed. The AdBlue<sup>®</sup> container is full when the can is no longer being emptied.

5 After filling has been completed, carefully unscrew the one-way filling hose from the AdBlue<sup>®</sup> container first and then slowly detach it to ensure that the AdBlue<sup>®</sup> still in the bleed line can be drained off.

**i** This helps to prevent any soiling.

**5 l can:**

This has the same locking thread as on the 10 l can.

**i** The most varied types of AdBlue<sup>®</sup> containers are available on the market. The one-way filling hose however, is specially matched to our can. A reliable and drip-free filling process can only be guaranteed when this particular combination is chosen.

**Before the maintenance interval is reached:**


If the "Refill AdBlue" service indicator appears in the multifunction display before the maintenance interval is reached, both the refill bottle and the one-way filling hose with 5 l can is available.

**⚠** We recommend that the customer be shown how to refill the tank in order to avoid the risk of contamination.

**i** During maintenance, only the 10 l can of AdBlue<sup>®</sup> should be used!

**Parts ordering note**

Part no.	Designation	Quantity
A 000 583 01 07 12	Refill bottle 1.89 l	n. B.
A 000 583 01 07 09	5 l can of AdBlue <sup>®</sup>	n. B.
A 000 583 22 04	One-way filling hose	n. B.
A 004 989 04 20 12	10 l can of AdBlue <sup>®</sup>	n. B.
A 004 989 04 20 13	210 l barrel of AdBlue <sup>®</sup>	n. B.
A 004 989 04 20 15	20 l can of AdBlue <sup>®</sup>	n. B.

		<p><b>i</b> <b>Installation:</b> Replace seal.</p> <p><b>Nm</b> Oil drain screw to oil pan</p> <p><b>S</b> Drift</p>	<p>*BA27.10-P-1001-03D</p> <p>*722589031500</p>
4	Detach transmission oil pan (3) from transmission housing (1)	<p><b>i</b> <b>Installation:</b> The sprags (3a) are only permitted for transmission 722.9 and they may not be mixed up with sprags for other transmissions. Contact corrosion can occur otherwise</p> <p><b>i</b> <b>Installation:</b> Replace bolts (3b).</p> <p><b>Nm</b> Screw/bolt, oil pan to transmission housing</p>	<p>*BA27.10-P-1002-03D</p>
5	Remove overflow pipe (31) from the transmission oil pan (3)	<p><b>i</b> The distance from the upper edge of the overflow pipe (31) to the base of the transmission oil pan (3) determines the filling capacity of the transmission.</p> <p><b>i</b> <b>Installation:</b> Replace overflow pipe (31) and press firmly onto the base (arrow).</p>	
6	Remove seal (33)	<p><b>i</b> <b>Installation:</b> Do not coat any sealant or sealing component on transmission oil pan (3) and transmission housing (1). Leaks can occur otherwise.</p> <p><b>i</b> <b>Installation:</b> Always replace seal (33).</p>	
	<b>Clean</b>		
7	Remove and clean the magnet (32) from the transmission oil pan (3)	<p><b>i</b> <b>Installation:</b> Check the magnet (32) for damage and replace if necessary</p>	
8	Clean the transmission oil pan (3)	<p><b>i</b> <b>Installation:</b> Sealing surfaces must be absolutely free of oil and grease. Leaks can occur otherwise.</p> <p><b>i</b> <b>Installation:</b> Have the cleaning sprays completely extracted.</p>	
9	Check oil filter (34) and replace if necessary		
10	Install in the reverse order		
11	Fill transmission with transmission fluid	<p>TRANSMISSION 722.9 (except 722.96)</p> <p>TRANSMISSION 722.96</p> <p><b>i</b> It is very essential to observe the work procedure and Specifications for Operating Fluids. Otherwise the transmission may be damaged.</p>	<p>AR27.00-P-0270W</p> <p>AR27.00-P-0270SYZ</p>
<b>⚠ Danger !</b>	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
12	Test run engine and check transmission for leaktightness and proper operation		

**Nm** Oil pan, automatic transmission

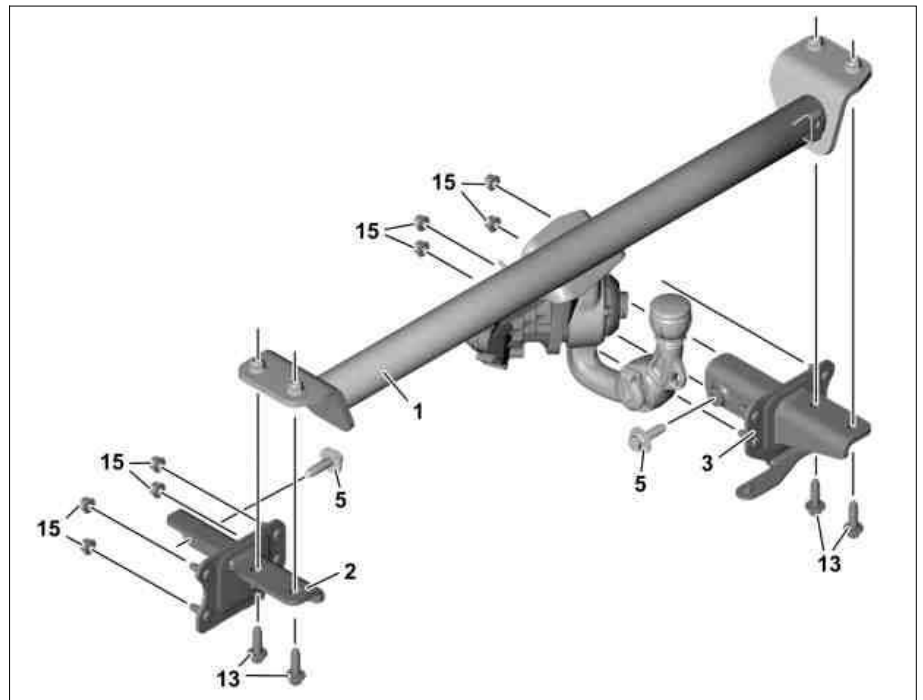
Number	Designation	TRANSMISSION 722.9
BA27.10-P-1001-03D	Oil drain screw to oil pan Nm	22

**Nm** Oil pan, automatic transmission

Number	Designation	TRANSMISSION 722.9
BA27.10-P-1002-03D	Screw/bolt, oil pan to transmission housing Stage 1 Nm	4
	Stage 2 $\angle^\circ$	180

**MODEL 205.0**  
with CODE 550 (Trailer coupling)

- 1 Trailer coupling cross member  
 2 Longitudinal member reinforcement, left  
 3 Longitudinal member reinforcement, right  
 5 Bolt (M10x25)  
 13 Bolts (M12x1.5x35)  
 15 Nuts (M10)



P31.11-2394-06

	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	<b>Remove</b>		
1	Remove cross member, trailer hitch (1)		AR31.30-P-0007LW
2	Detach rubber retainer from right rear muffler		
3	Loosen heat shield above right rear muffler	Until the nuts (15) for the right longitudinal member reinforcement (3) are accessible.	
4	Unscrew nuts (15) of right longitudinal member reinforcement (3) from rear center section		
5	Remove bolt (5) of right longitudinal member reinforcement (3) from right longitudinal frame member		
6	Remove right longitudinal member reinforcement (3)		
	<b>Install</b>		
7	Slide right longitudinal member reinforcement (3) into right longitudinal frame member.		
8	Screw on bolt (5) of right longitudinal member reinforcement (3) on right longitudinal frame member finger-tight		
9	Screw on nuts (15) of right longitudinal member reinforcement (3) onto rear center section finger-tight		
10	Mount cross member for trailer hitch (1) onto left longitudinal member reinforcement (2) and right longitudinal member reinforcement (3).	Helper required.	
11	Screw on bolts (13) of left longitudinal member reinforcement (2) and right longitudinal member reinforcement (3) finger-tight		
12	Align trailer hitch		
13	Tighten nuts (15) of right longitudinal member reinforcement (3) on rear center section to torque	Nut, longitudinal member reinforcement for trailer hitch to body	*BA31.11-P-1002-01K
14	Tighten bolt (5) of right longitudinal member reinforcement (3) on right longitudinal frame member to torque	Bolt, longitudinal member reinforcement for trailer hitch to body	*BA31.11-P-1003-01K

AR35.31-P-0520-03LW	Check rear axle differential oil level, correct if necessary		
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## MODEL 205

### Rear axle differential housing

Number	Designation		MODEL 205
BA35.31-P-1002-02H	Oil filler screw of rear axle differential	Nm	50

### Rear axle differential


Number	Designation		MODEL 205.0 (except 205.086/087), 205.1/2
BF35.31-P-1002-01U	ALU rear axle differential filling capacity	ALU HAG183 Sheet	0,8 BB00.40-P-0239-71 A

### Rear axle differential

Number	Designation		MODEL 205.086/087
BF35.31-P-1003-01U	Filling capacity for rear axle differential with differential lock	Liter	1,2
	Sheet		BB00.40-P-0235-61 A

### Repair materials

Number	Designation	Order number
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10
BR00.45-Z-1061-01A	Sealant, Omnifit 100H (50 g)	A 002 989 23 71


 Check oil level at interior temperature only and not when the rear axle differential is at operating temperature. Otherwise, when the rear axle differential is at operating temperature, required oil could escape.

#### Cleaning

- Clean area around oil filler screw (50 g).
- Remove and replace oil filler screw (50g).


#### Check

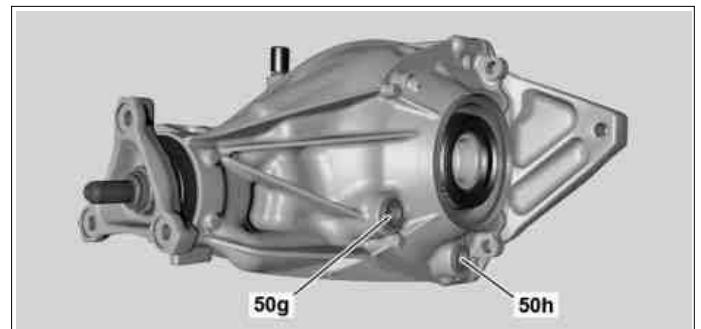
- Check and correct oil level.

 With the correct oil level the oil reaches up to the bottom edge of the threaded hole. If necessary, add oil or drain off oil until the oil only drips out of the threaded hole.

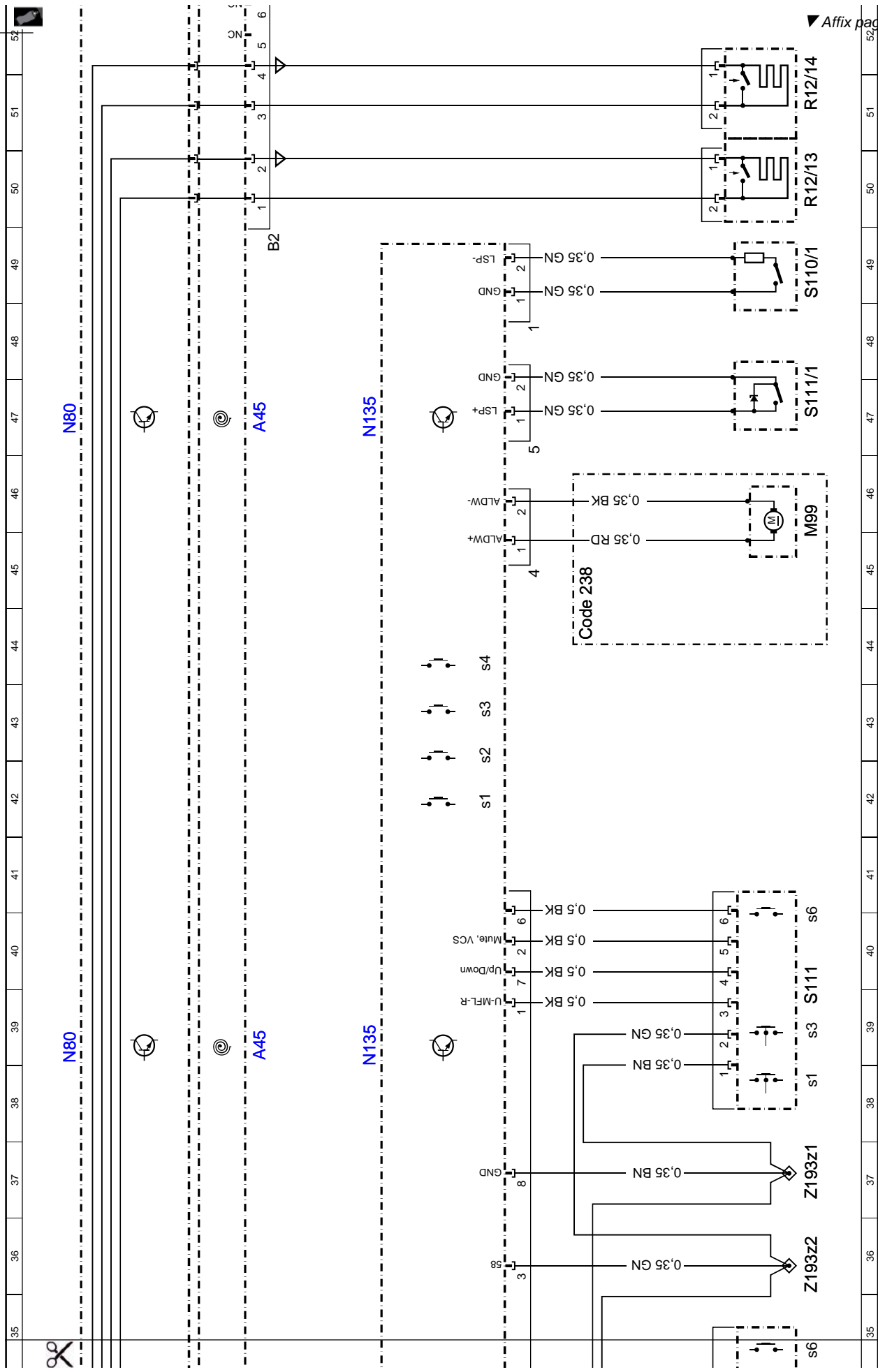
#### Cleaning

- Clean new oil filler screw (50g) and threaded hole in rear axle differential using cleaning spray .

 The oil filler screw (50g) and tapped hole must be free from oil and grease.



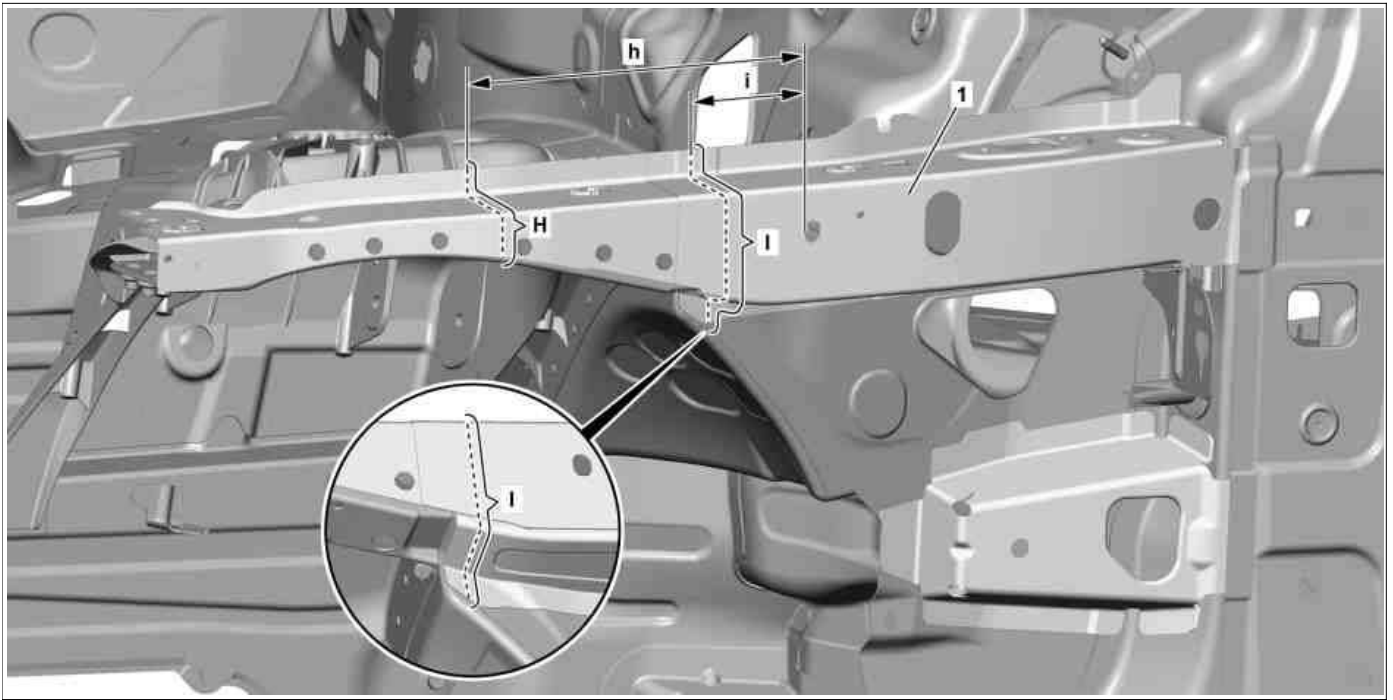
P35.31-2295-10



▼ Affix page 4 here ▼

Cut here





P62.20-4899-09

- 4 Mark separating point upper front longitudinal member (1) and cut (area H oder I).

**i** The upper front longitudinal member (1) can be separated from the front or rear separating point (area H or I) depending on the degree of damage.

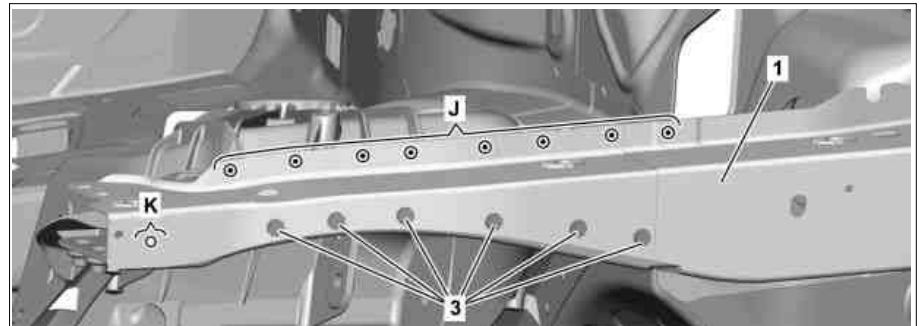
**ⓘ** Do not cut too deeply. Otherwise the components below can be damaged and weakened.

**i** **Dimensions:**  
h = approx. 185 mm  
i = approx. 50 mm

- 5 Unscrew bolts (3) from upper front longitudinal member (1).

- 6 Expose spot welds on upper front longitudinal member (1) and cut out (area J).

- 7 Expose self-piercing rivet on upper front longitudinal member (1) and drill with Ø 6 mm bit (area K).

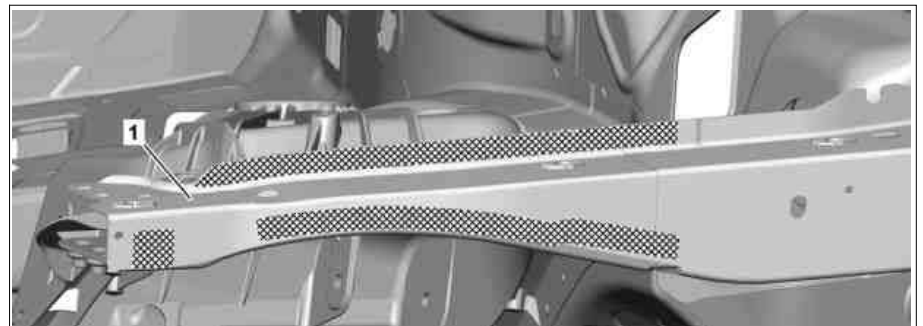


P62.20-4900-04

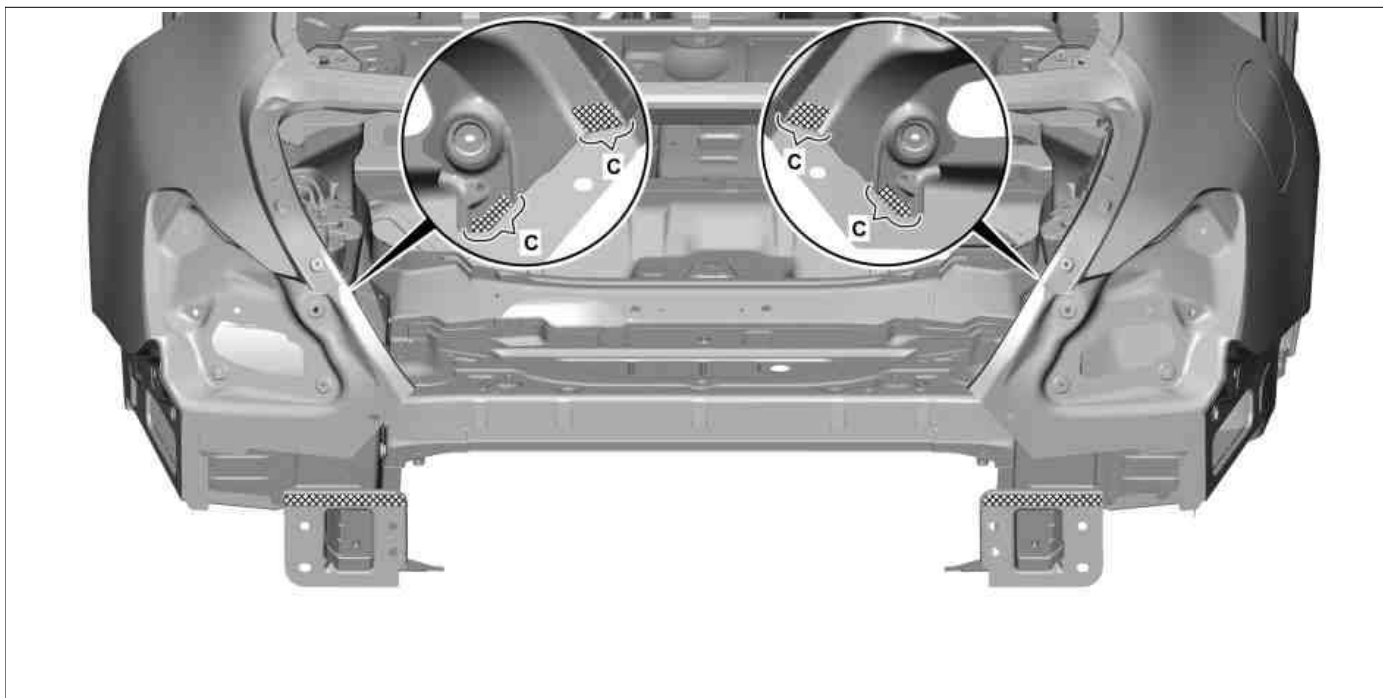
- 8 Heat upper front longitudinal member (1) in crosshatched areas.

**i** Cross-hatched areas are bonded.

- 9 Remove upper front longitudinal member (1).



P62.20-4901-04



P64.20-5698-09

Shown on removed spare wheel well

13 Apply window glue to mating surfaces on spare wheel well to rear end assembly.

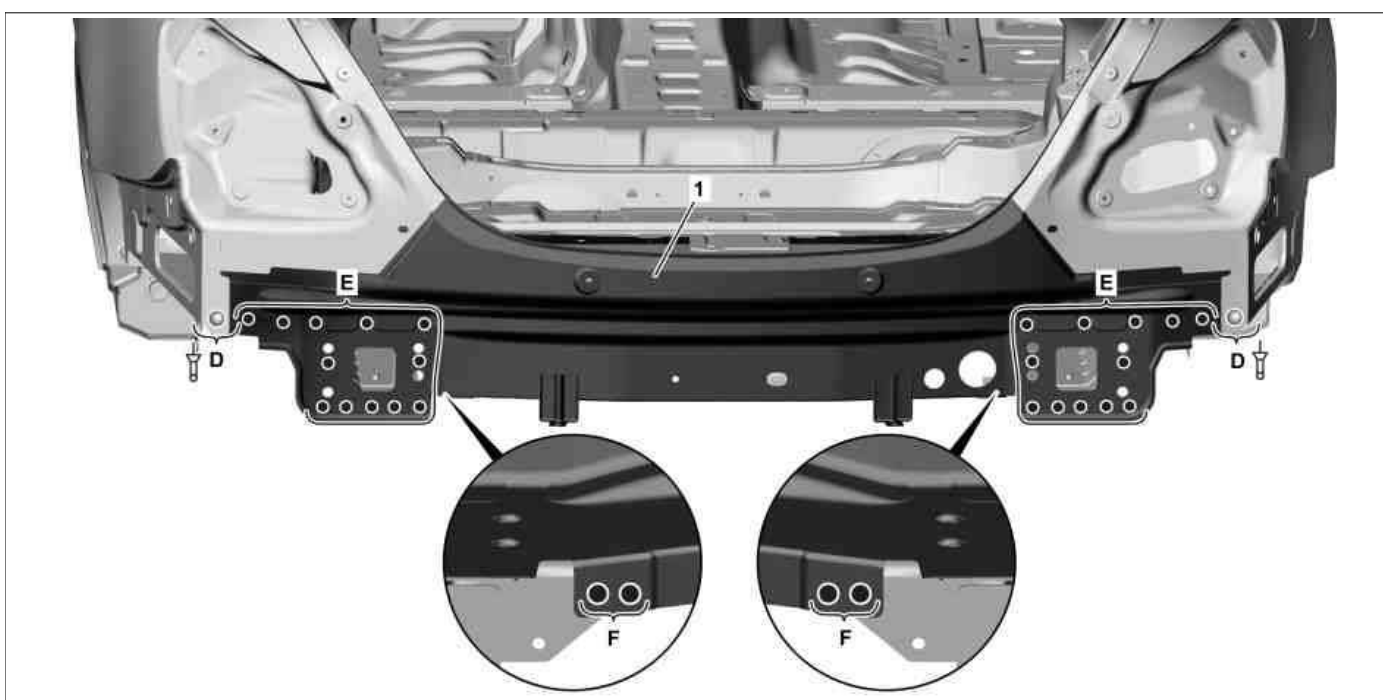
14 Apply 2-component adhesive to body in crosshatched areas.

With spare wheel well installed.

**i** Observe pretreatment of bonding surfaces. Observe manufacturer's specifications for drying and processing time of adhesive.

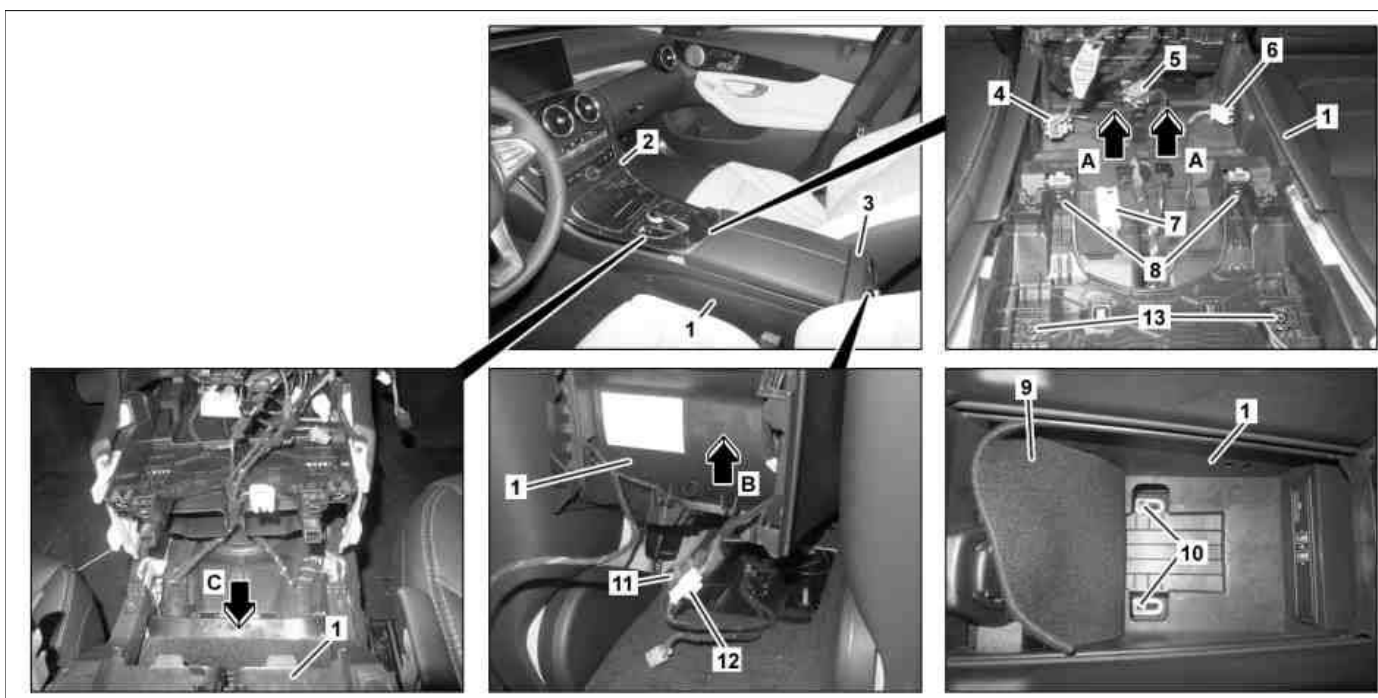
**i** Apply 2-component adhesive to inside (areas C).

**i** Observe pretreatment of bonding surfaces and manufacturer's specifications for drying and processing time of 2-component adhesive.



P64.20-5699-09

MODEL 205 with TRANSMISSION 722, 724, 725



P68.20-4710-09

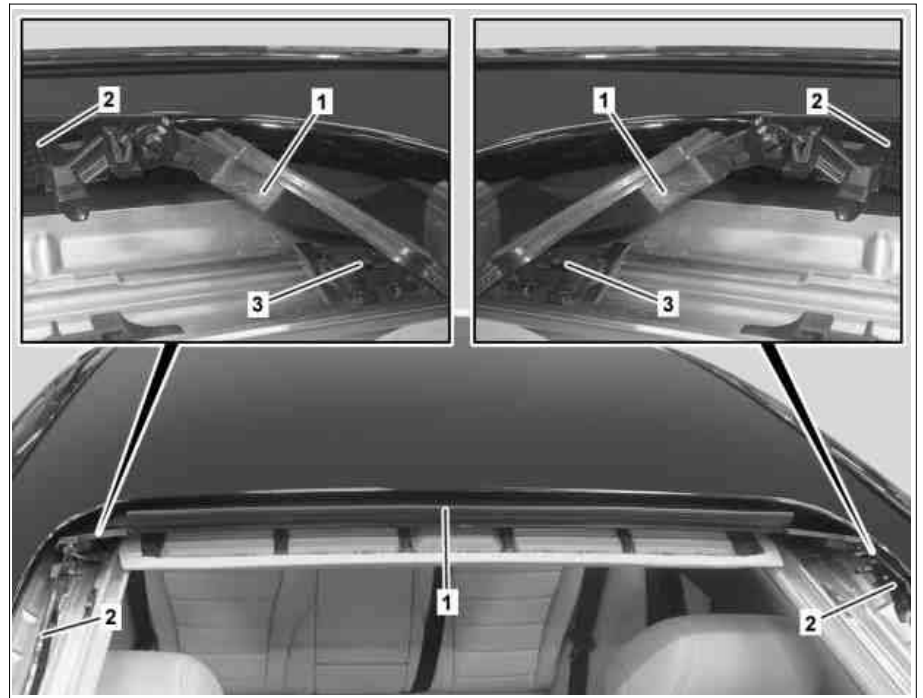
Shown on MODEL 205.0 with CODE 386 (Comfort telephony)

- 1 Center console
- 2 Center console cover
- 3 Rear center console cover
- 4 Electrical connector
- 5 Electrical connector
- 6 Electrical female connector
- 7 Electrical female connector
- 8 Bolts
- 9 Cover
- 10 Nuts
- 11 Electrical connector (MODEL 205.0/2 with CODE 386 (Comfort telephony))
- 12 Electrical connector (MODEL 205.0/2 with CODE 386 (Comfort telephony))
- 13 Bolts



☒ ☒	Remove/install		
1	Remove center console cover (2)		AR68.20-P-2350LW
2	Remove rear center console covering (3)	MODEL 205 with TRANSMISSION 722, 724, 725 with CODE 301 (Package SMOKER) MODEL 205 with TRANSMISSION 722, 724, 725 with CODE U67 (230 V socket in interior compartment) MODEL 205.0/2 with TRANSMISSION 722, 724, 725 with CODE 386 (Comfort telephony) MODEL 205.0/2 with TRANSMISSION 722, 724, 725 with CODE U80 (115 V socket)	AR68.20-P-2358LW
3	Disconnect electrical connector (4) and unclip from center console (1)	[i] The number can vary according to the equipment.	
4	Disconnect electrical connector (5)	[i] The number can vary according to the equipment.	
5	Unclip electrical sockets (6, 7) from center console (1)	[i] The number can vary according to the equipment.	
6	Unclip wiring harness from center console (1) (arrows A)		
7	Lift paneling (9) in armrest stowage compartment and lay down to side		

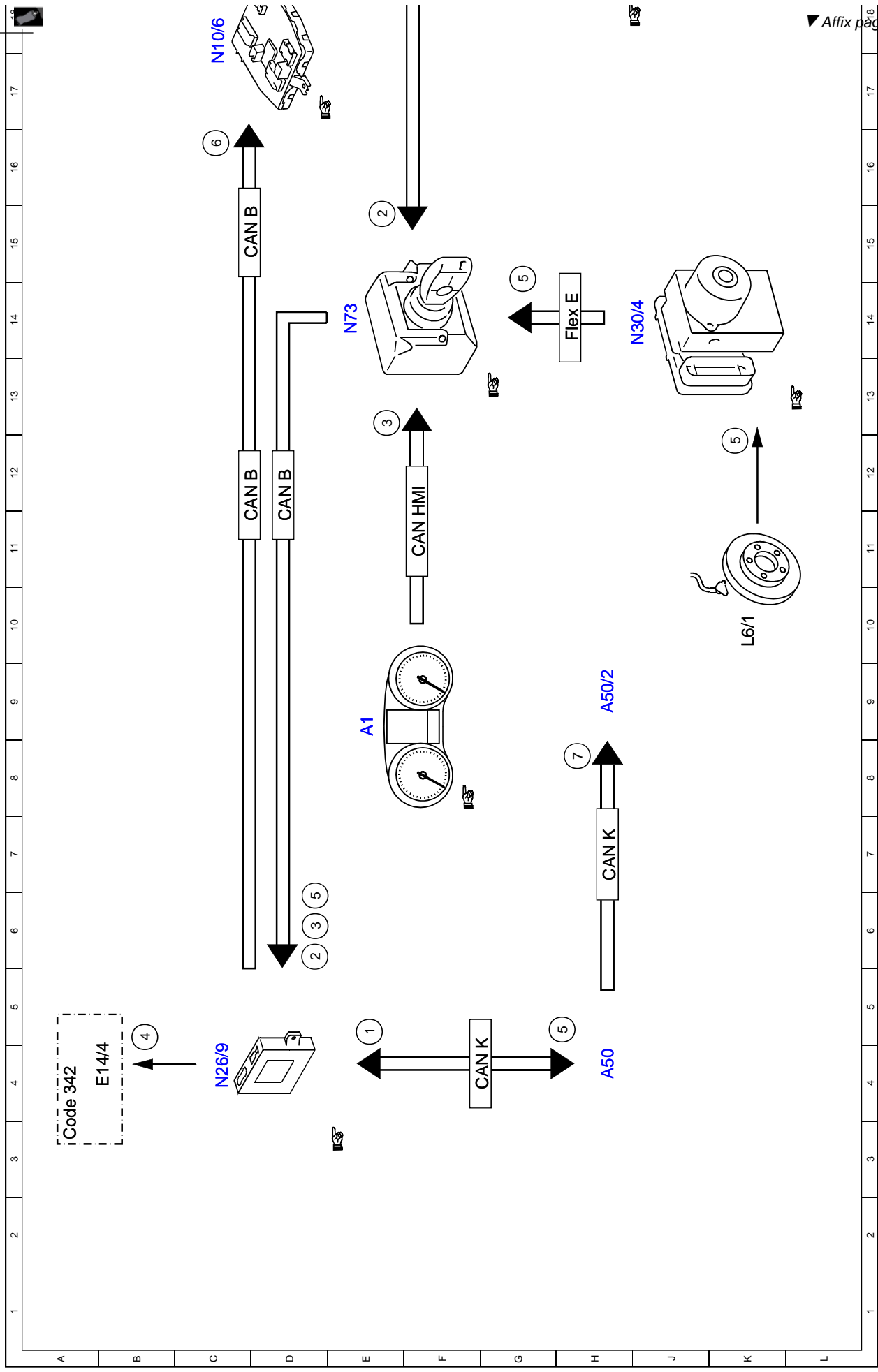
**MODEL 205**  
with CODE 414 (Sliding sunroof)

- 1 Water drain rail  
2 Tilting bracket  
3 Slider



P77.20-2833-06

 <b>Danger !</b>	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	AS00.00-Z-0011-01A
	<b>Remove/install</b>		
1	Remove glass roof		AR77.20-P-2852LW
2	Remove water drain rail (1) from tilt bracket (2) on right and left		
3	Remove water drain rail (1) from slider (3) on right and left		
4	Check slider (3) for damage	If slider (3) is damaged: ↓ Remove sliding roof frame and replace slider (3).	AR77.20-P-3000LW
5	Install in the reverse order		

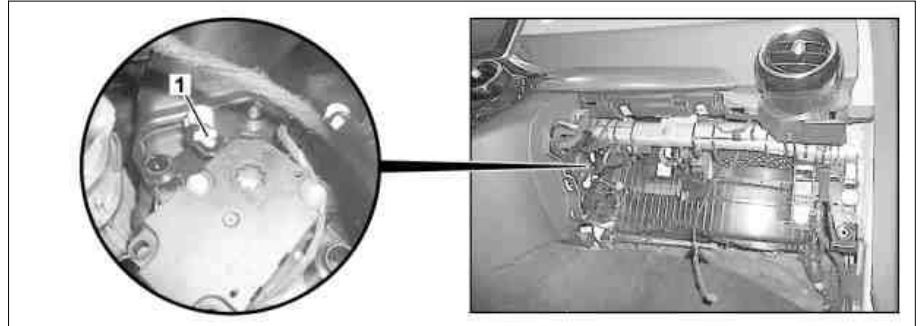


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**MODEL 205**

Operation no. of the operation texts or standard texts and flat rates					
Category	Op. no.	Operation text	Time	Acc. no.	Code
P	028451	Lubricate positioning bracket of air distribution flap			

1 Clamp

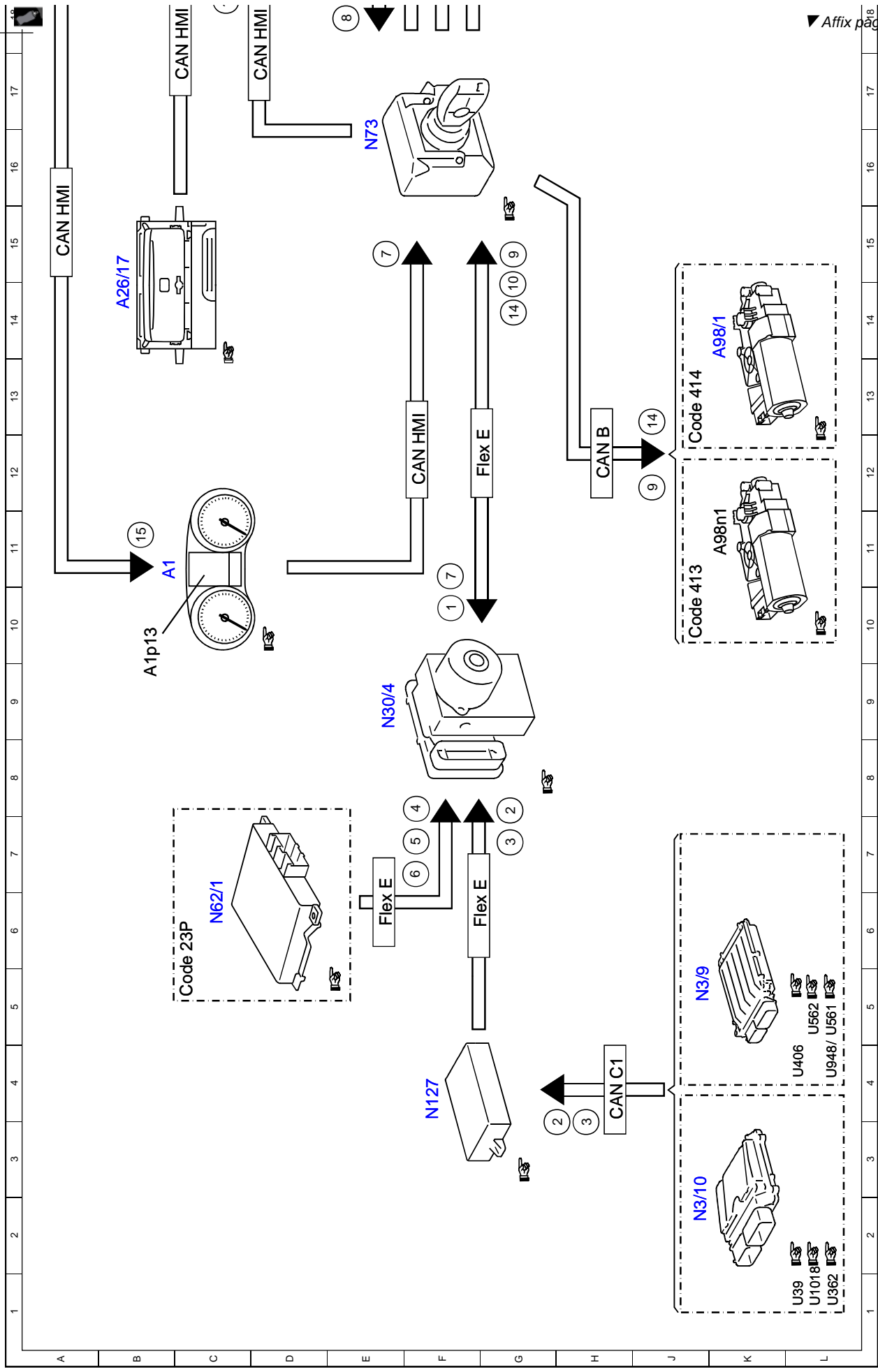


P83.10-2892-04

	<b>Check</b>		
1	Check whether vehicle is affected by measure	MODEL 205 from WDD2050041F000823 to WDD2050452F000971	SM83.10-P-0006-01AAA
	<b>Remove/install</b>		
2	Remove glove compartment		AR68.10-P-1400LW
3	Lubricate positioning bracket (1) of air distribution flap	1 container of lubricant is sufficient for 30 vehicles. Special lubricant, spray	*BR00.45-Z-1077-06A
4	Install in the reverse order		

**Repair materials**

Number	Designation	Order number
BR00.45-Z-1077-06A	Special lubricant, spray	A 000 989 35 60



▼ Affix page 2 here ▼