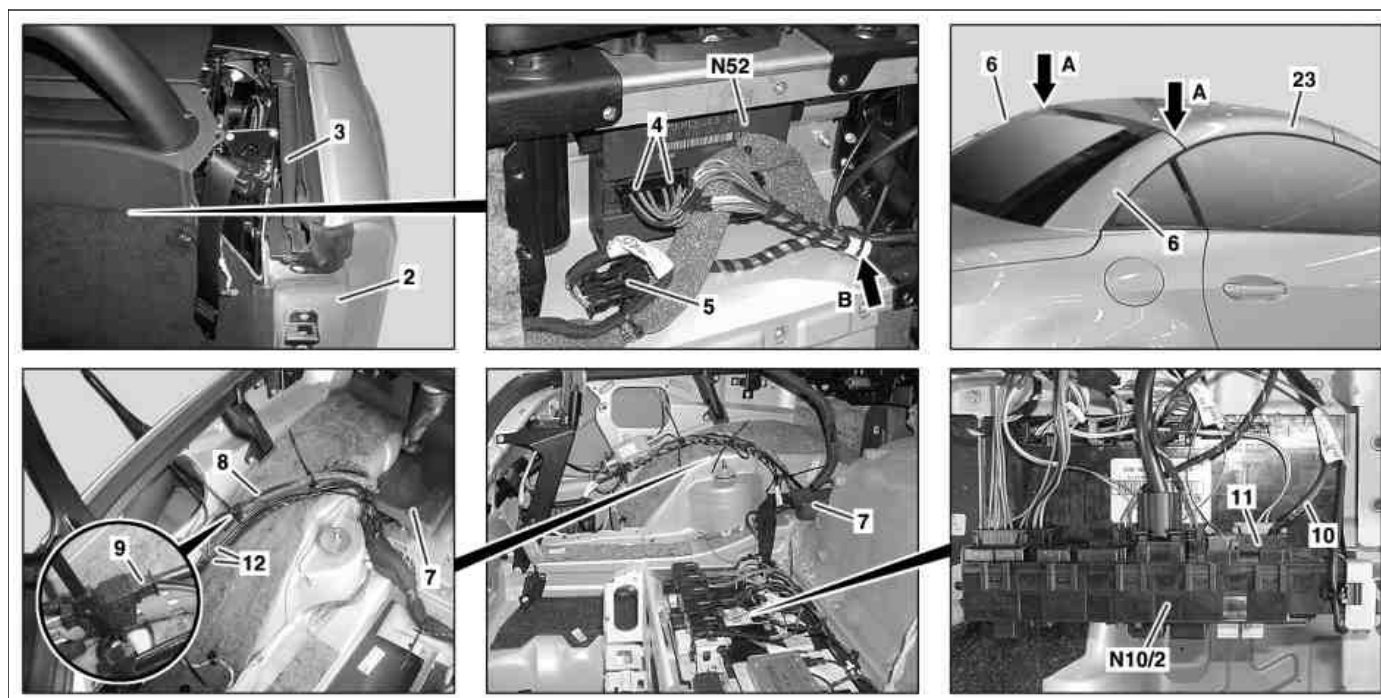
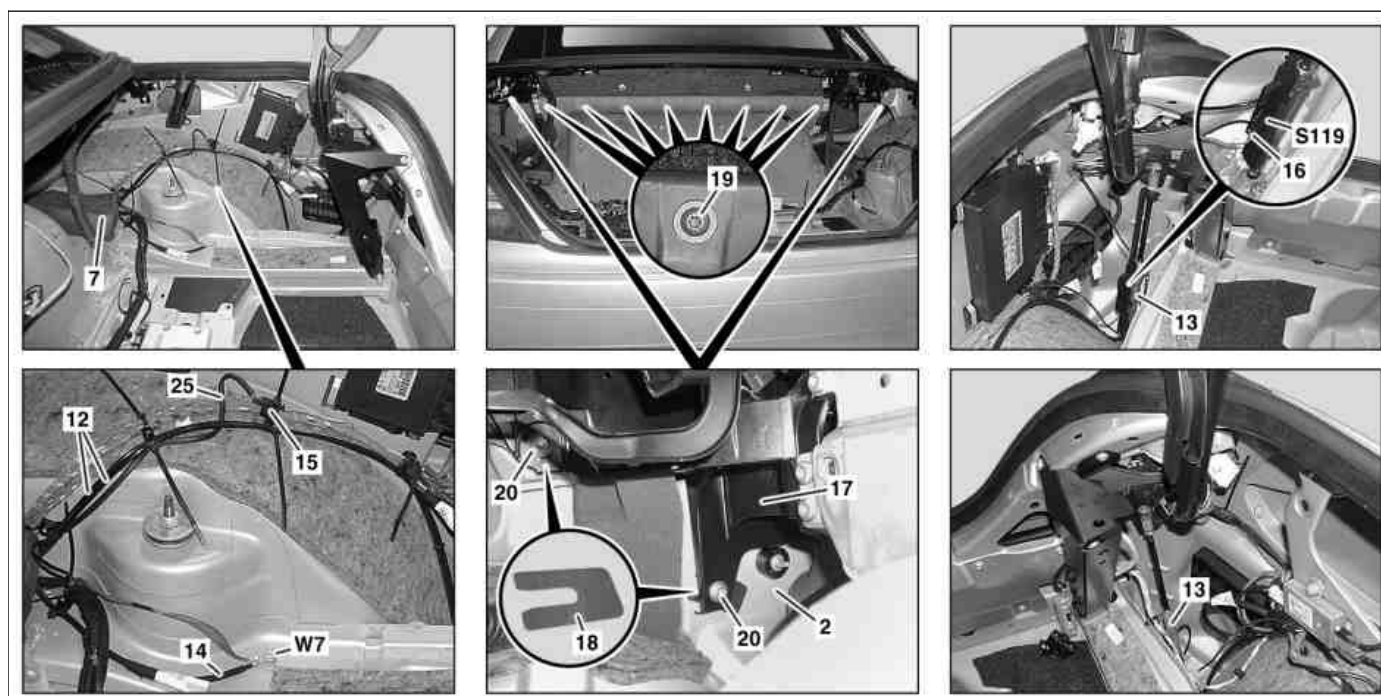




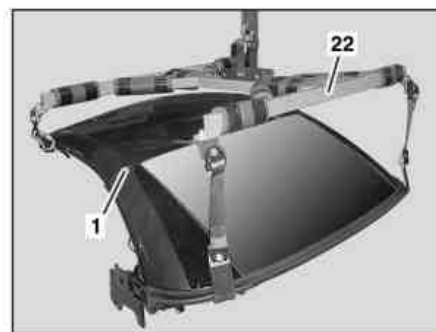
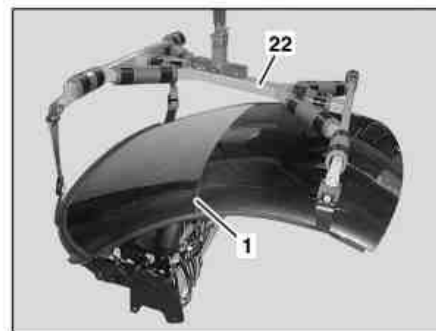
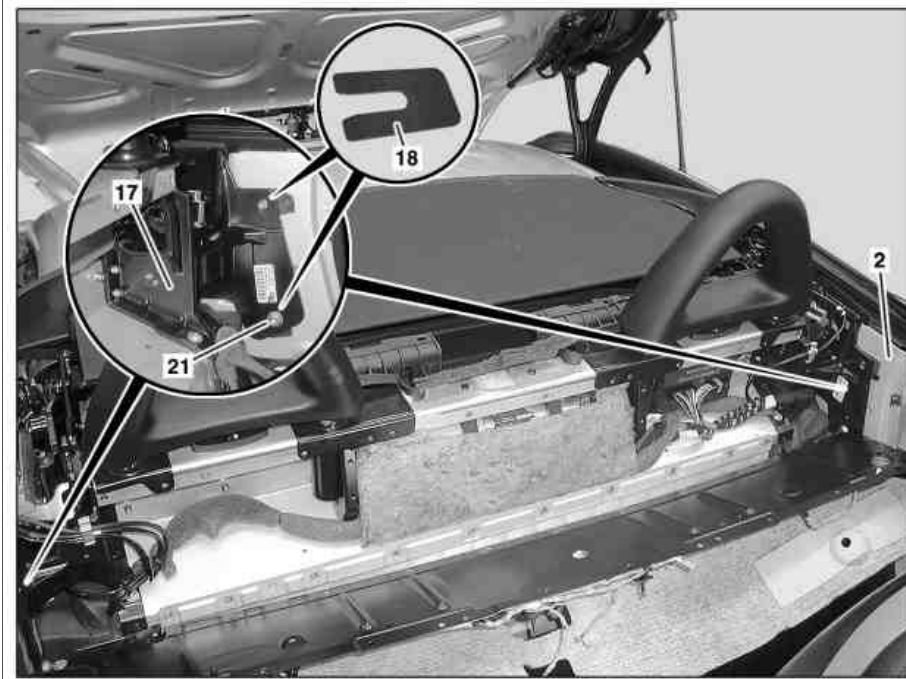
P77.30-2309-09

- | | | | | | |
|---|------------------------|----|----------------------------|-------|--|
| 2 | Center column | 8 | Electrical line | N10/2 | Rear SAM control unit with fuse and relay module |
| 3 | Inner apex seal | 9 | Electrical connector | N52 | Power soft top control unit |
| 4 | Electrical connectors | 10 | Rear window wiring harness | | |
| 5 | Electrical connector | 11 | Electrical connector | | |
| 6 | C-pillar upper section | 12 | Hydraulic lines | | |
| 7 | Foam rubber | 23 | Vario roof front section | | |



P77.30-2310-09

- | | | | | | |
|----|--|----|----------------------|------|--|
| 2 | Center column | 15 | Electrical connector | 25 | Electrical line |
| 7 | Foam rubber | 16 | Electrical connector | S119 | Tubular frame "open" limit switch |
| 12 | Hydraulic lines | 17 | Main bearing | W7 | Ground (right wheel well in luggage compartment) |
| 13 | Tubular frame actuating hydraulic cylinder | 18 | Spacer | | |
| 14 | Ground cable | 19 | Screw | | |
| | | 20 | Screw | | |



P77.30-2312-09

- | | | |
|-----------------|-----------------|----------------|
| 1 Vario roof | 17 Main bearing | 21 Screw |
| 2 Center column | 18 Spacer | 22 Roof hoist |

Modification notes

6.10.10	Value modified: Bolt, upper tank cover to Vario roof cross member	*BA47.10-P-1009-01B
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	Remove/install		
Danger!	Risk of injury caused by fingers being pinched or crushed when removing, installing or aligning hoods, doors, trunk lids, liftgates or sliding roof	Keep body parts and limbs well clear of moving parts.	AS00.00-Z-0011-01A
Danger!	Risk of injury caused by body parts being trapped or crushed when working on partially open Vario roof (stop mode) or in its closing area as a result of the Vario roof suddenly collapsing	Secure Vario roof with a suitable special tool.	AS77.50-Z-0001-01A
	Notes on Vario roof assembly work		AH77.30-P-0002-01R
1	Remove upper paneling from left and right center pillar (2)	i Do not unscrew bolts from belt end fittings and do not disconnect electrical connectors. Lay paneling down toward front with seat belts connected. i Installation: Before installing upper paneling on center pillars (2) check contour of Vario roof (1) and adjust if necessary. Refer to: ↓ Adjust contour of Vario roof (1)	AR68.30-P-1077V AR77.50-P-3040V
2	Completely remove left and right inner apex seals (3) from center pillars (2) with mounting wedge		*110589035900
3	Remove crossmember cover from Vario roof (1)	i Do not remove seat belt guide brackets. Lay cover down toward front with seat belts connected.	AR77.30-P-3976V
4	Close Vario roof (1)	i Stop Vario roof (1) closing operation before front lock starts locking. The front lock should not be locked when removing the Vario roof (1).	
5	Remove cable tie (arrow B)	i Installation: Replace cable tie (arrow B).	
6	Disconnect electrical connectors (4) from soft top actuation control module (N52)		
7	Separate electrical connector (5)		
8	Press Vario roof (1) down on transitions (arrows A) between Vario roof front section (23) and C-pillar upper sections (6).	i Press down the locks on the C-pillar upper section (6) to move them to the required position for removing the Vario roof (1)	

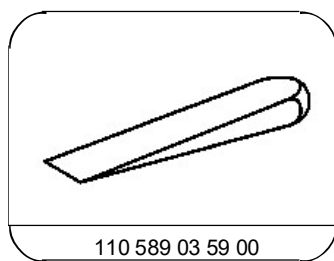
9	Completely remove trunk lid seal	 Installation: Replace trunk lid seal	AR88.50-P-5010V
10	Remove left and right side paneling in trunk		AR68.30-P-4800V
11	Remove upper trunk center paneling		AR68.30-P-4810VA
12	Remove left and right trunk lid partition bracket		AR68.50-P-3100V
13	Remove left and right foam rubber (7) in trunk		
14	Expose electrical line (8) for Vario roof "up/down" limit switch to electrical connector (9) and disconnect electrical connector (9)	 Installation: Replace cable tie for fastening electrical line (8).	
15	Expose rear window wiring harness (10) to rear SAM control module with fuse and relay module (N10/2) in trunk and disconnect electrical connector (11).	 Installation: Replace cable tie for mounting rear window wiring harness (10).	
16	Remove ground line (14) from ground (right wheel well in luggage compartment) (W7)		
17	Expose electrical line (25) in trunk and ground line (14)	 Installation: Replace cable tie for mounting electrical line (25) and ground line (14).	
18	Disconnect electrical connector (15)		
19	Disconnect electrical connector (16) from tubular frame open limit switch (S119)		
20	Expose hydraulic lines (12) in trunk to both tubular frame actuation hydraulic cylinders (13).	 Installation: Replace cable tie for mounting hydraulic lines (12).	
21	Unclip tubular frame actuation hydraulic cylinders (13) on upper and lower mount and guide toward front into passenger compartment through trunk and lay down on rear shelf.	 Lay suitable rag below tubular frame actuation hydraulic cylinder (13) Otherwise the stowage compartment can be scratched or soiled	
22	Remove bolts (19)		*BA47.10-P-1009-01B
23	Mark installation position of both main bearings (17)	 The marking should be as precise as possible Otherwise correct installation of the Vario roof (1) is not ensured	AR77.50-P-3000-05V
24	Mark number, thickness and installation location of spacers (18) on left and right center column (2)		
25	Unscrew bolts (20, 21) from left and right main bearing (17)	 Installation: Observe installation markings and spacers (18). Otherwise the mechanical system of the Vario roof (1) can be distorted or damaged.  Installation: Aid of helper is required to move the Vario roof (1) to marked installation position when tightening bolts (20, 21) 	*BA77.33-P-1007-01A
26	Install roof hoist (22) on Vario roof (1)	 Observe installation position shown for roof hoist (22) on Vario roof (1) Roof hoist, Firma Weitner GmbH D-85072 Eichstätt	
27	Lift Vario roof (1) and remove from vehicle	 Carefully raise and remove Vario roof (1) from vehicle with aid of two helpers, otherwise electrical or hydraulic lines or the Vario roof (1) or the vehicle can be damaged.  Installation: Carefully position Vario roof (1) on vehicle with aid two helpers, otherwise electrical or hydraulic lines or the Vario roof (1) or the vehicle can be damaged.	
28	Install in the reverse order		

Fuel tank

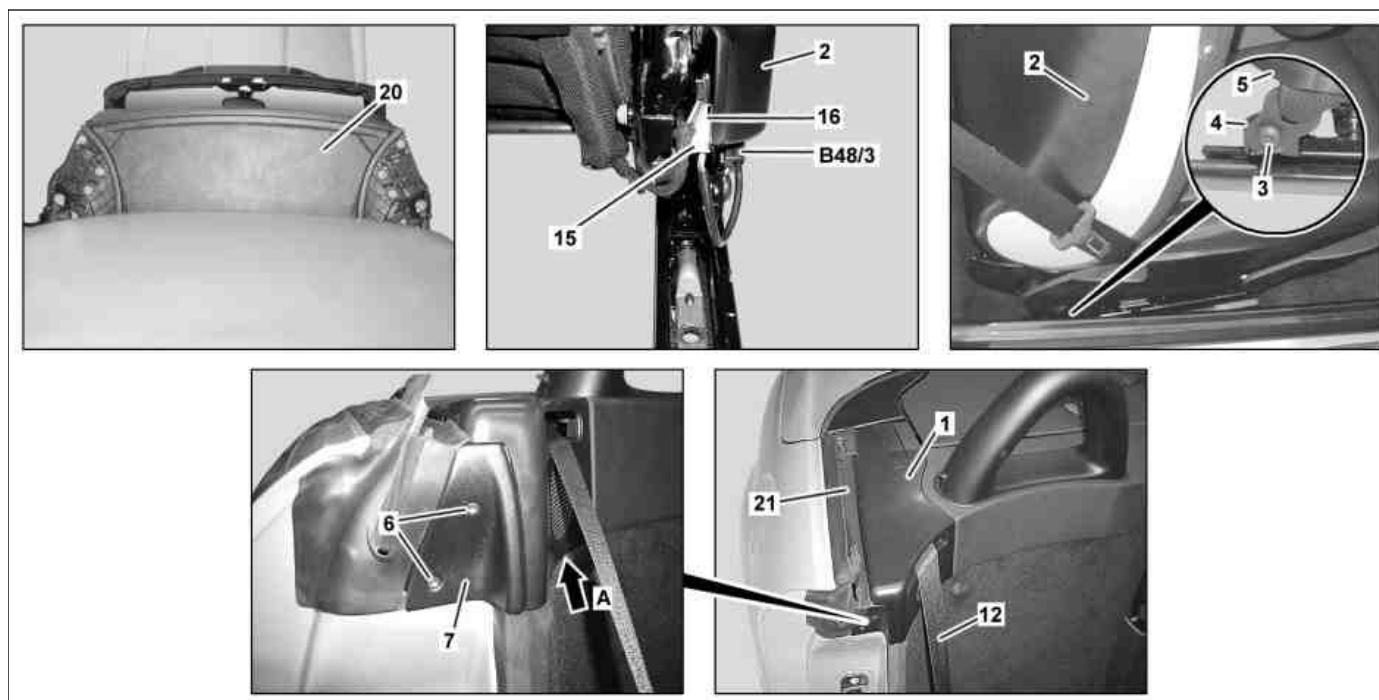
Number	Designation	Model 171
BA47.10-P-1009-01B	Bolt, upper tank cover to Vario roof cross member	Nm 10

Nm Soft top mechanical components

Number	Designation	Model
		171
BA77.33-P-1007-01A	Bolts, main bearing to B-pillar	Nm 20



Mounting wedge

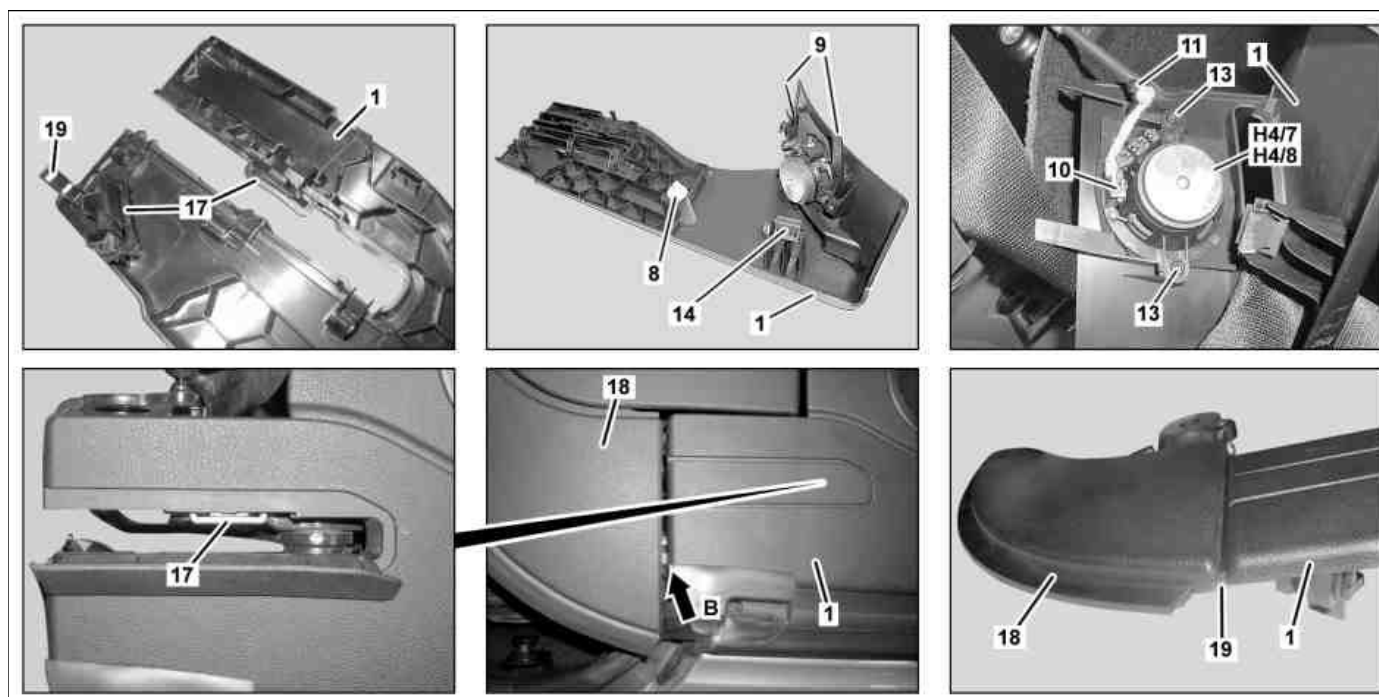


P68.30-3318-09

- 1 Upper center column paneling
- 2 Front seat
- 3 Screw
- 4 Belt end fitting
- 5 Cover
- 6 Bolts
- 7 Cover

- 12 Seat belt
- 15 Electrical connector (front passenger seat as of 1.6.06 with Code (494) USA version)
- 16 Connector bracket (passenger seat as of 1.6.06 with Code (494) USA version)

- 20 Rear shelf main flap
- 21 Seal
- B48/3 Belt tensioning sensor (front passenger seat as of 1.6.06 with Code (494) USA version)



P68.30-3319-09

- 1 Upper center column paneling
- 8 Clip

- 11 Cable strap (with code (523) MB Audio 20 radio)

- 13 Bolt (with code (523) MB Audio 20 radio)

9 Guides 10 Electrical connector (with code (523) MB Audio 20 radio or with code (525) MB Audio 50 APS radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with code (530) COMAND APS USA (with navigation) or with code (533) Front and rear speaker -without radio- or with code (535) Audio 20 CD radio, USA	or with code (525) MB Audio 50 APS radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with code (530) COMAND APS USA (with navigation) or with code (533) Front and rear speaker -without radio- or with code (535) Audio 20 CD radio, USA	or with code (525) MB Audio 50 APS radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with code (530) COMAND APS USA (with navigation) or with code (533) Front and rear speaker -without radio- or with code (535) Audio 20 CD radio, USA
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14 Clamp 17 Clips 18 Side flap 19 Tab	H4/7 Left rear speaker (with code (523) MB Audio 20 radio or with code (525) MB Audio 50 APS radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with code (530) COMAND APS USA (with navigation) or with code (533) Front and rear speaker -without radio- or with code (535) Audio 20 CD radio, USA	H4/8 Right rear speaker (with code (523) MB Audio 20 radio or with code (525) MB Audio 50 APS radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with code (530) COMAND APS USA (with navigation) or with code (533) Front and rear speaker -without radio- or with code (535) Audio 20 CD radio, USA
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Modification notes

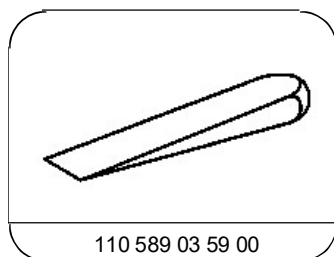
20.3.07	Mounting and adjustment for installation position of upper center column paneling modified	Operation step 7	
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	Remove/install		
1	Open Vario roof until rear shelf main flap (20) is positioned vertically as shown.		
2	Move left and right front seat (2) upward and toward front.		
3	Fold seat backrest forward		
4	Disconnect electrical connector (15) for belt tensioner sensor (B48/3)	Only on front passenger seat on vehicles as of 1.6.06 with Code (494) USA version	
5	Unscrew bolt (3) and move belt end fitting (4) out of paneling (5)	  Offset bit holder (insert tool)	*BA91.40-P-1001-01A *203589021000 AH00.00-P-0015-01CW
	Notes on calculating tightening torque when using insertion tool with various effective lengths.		
6	Unscrew screws (6) and remove cover (7)		
7	Unlatch clips (17).	 Installation: Switch on ignition and fold down rear shelf main flap (20) by actuating the soft top actuation switch. Adjust height of upper center column paneling (1) so that the side flap (18) makes slightly contact with the lug (19) (arrow B). Then latch clips (17).	
8	Unclip upper center column paneling (1) from clip (8) and clamp (14) with assembly wedge.	 Installation: Insert guides (9) behind rear paneling (arrow A). Position seal (21) on upper center column paneling (1). 	*110589035900
9	Remove cable tie (11) and disconnect electrical connector (10)	Only on vehicles with code (523) Audio 20 MB radio or with code (525) Audio 50 APS MB radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with Code (530) COMAND APS USA (with Navigation) or with Code (533) Front and rear speaker - without radio- or with Code (535) Audio 20 CD radio, USA	
10	Route seat belt (12) through upper center column paneling (1) and remove upper center column paneling (1)		

11	Unscrew bolts (13) and remove left rear speaker (H4/7) and right rear speaker (H4/8)	Only when replacing upper center column paneling (1) on vehicles with code (523) Audio 20 MB radio or with code (525) Audio 50 APS MB radio or with code (527) COMAND APS (with navigation) or with code (529) HIGH Class Japan or with Code (530) COMAND APS USA (with Navigation) or with Code (533) Front and rear speaker - without radio- or with Code (535) Audio 20 CD radio, USA	
12	Install in the reverse order		

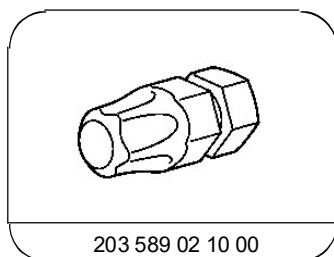
 Seat belts/emergency tensioning retractors

Number	Designation		Model 171
BA91.40-P-1001-01A	Screw on belt end fitting	Nm	30



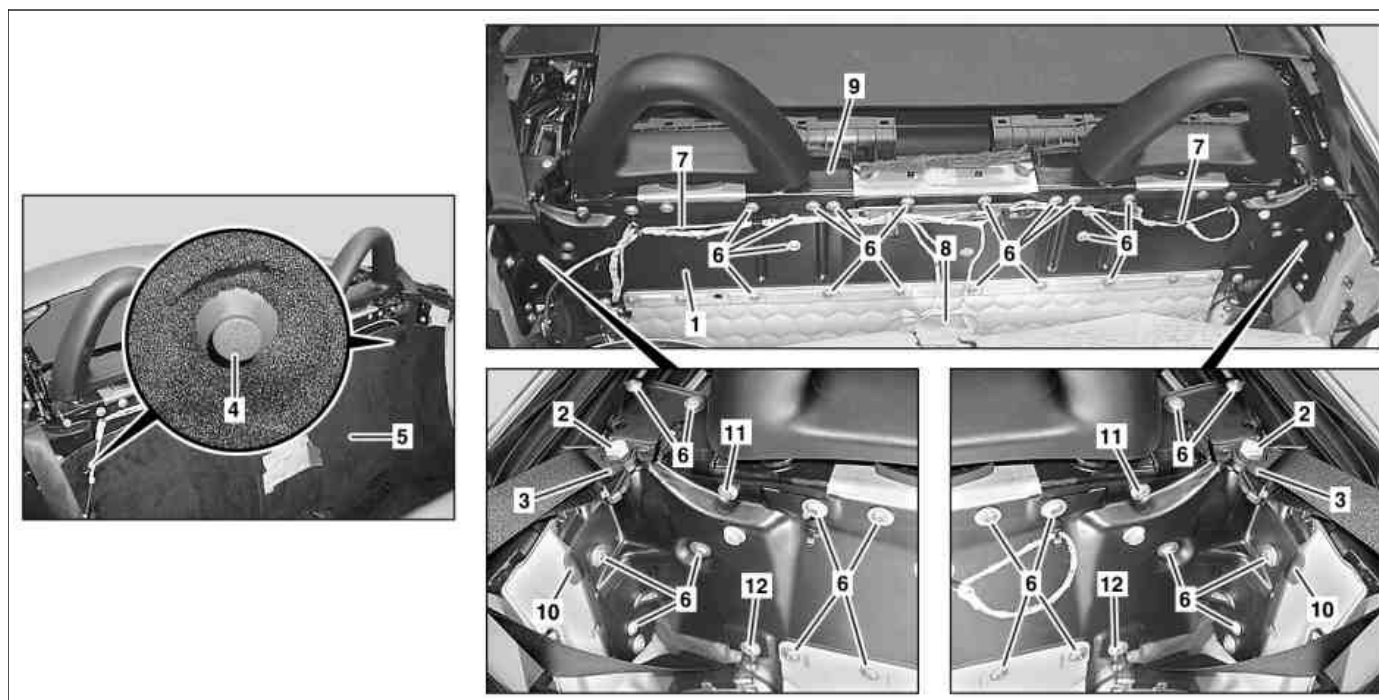
110 589 03 59 00

Mounting wedge



203 589 02 10 00

Torx blade



P77.30-2357-09

1	Cover	5	Rear wall cover	9	Vario roof crossmember
2	Bolt	6	Bolts M6	10	Spacer
3	Seat belt guide bracket	7	Electrical line	11	Bolt M8
4	Coat hanger hook	8	Tank cover	12	Bolt M6

Modification notes

10.6.05	"Threaded connection for cover" modified	Step 6	
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	Remove/install		
1	Completely move both front seats toward front and fold both backrests down toward front.		
2	Remove interior paneling from roll bar		AR68.30-P-1380V
3	Unscrew bolts (2) and lay upper seat belt guide brackets (3) down to side	Nm	*BA91.40-P-1002-01A
4	Unscrew coat hanger hook (4) by hand		
5	Fold rear wall paneling (5) toward front until bolts (6, 11, 12) are accessible		
6	Unscrew screws (6, 11, 12)	i Observe installation location for bolts M6 (12) when unscrewing (see also installation note). Observe number, thickness and corresponding installation location of spacers (10). Secure spacers (10) against falling down using sealant, adhesive tape or similar material. ⚙️ Installation: Observe installation location for bolts M6 (12): Since the bolts M6 (12) have a longer thread, ensure that they are screwed in at their original location. Otherwise the Vario roof can be damaged by extending bolt threads M6 (12) next time the Vario roof is moved. i Installation: Position spacers (10) at original installation location. Nm Rechargeable battery-powered drill/screwdriver	*BA77.30-P-1012-01B *WH58.30-Z-1007-20A
7.1	Remove electrical lines (7) from cover (1)	Only if cover (1) is completely removed i Installation: Replace damaged retaining clips.	

8	Pull cover (1) out of tank cover (8) upward and remove from Vario roof crossmember (9).	⚠ Handle cover (1) carefully. Adjacent components can be damaged from sharp sheet metal edges.	
9	Install in the reverse order		

Soft top

Number	Designation			Model 171.4
BA77.30-P-1012-01B	Bolt, cover to Vario roof crossmember	M6	Nm	6
		M8	Nm	20

Seat belts/emergency tensioning retractors

Number	Designation		Model 171
BA91.40-P-1002-01A	Screw/nut to front seat belt guide bracket	Nm	30

Commercially available tools

Number	Designation
WH58.30-Z-1007-20A	Cordless drill/driver