


GENERAL INFORMATION > NOTES ON SOFT TOPS - AH77.30-P-0001-01MCO >

Model 451.4

 The use of Daimler AG approved materials and tools is absolutely necessary for proper repair because the material characteristics of the recommended products influence the work results and working time.

Repair work at soft top should only be carried out by trained skilled personnel.

The drive cable, the soft top sliding blocks and the side strut bearings on the A-pillar must only be changed in pairs.

To prevent torsion, i.e. twisting of body, which leads to adjustment faults during repair work on soft top and its detachable body components, the vehicle must be positioned horizontally on the ground.

Grease side strut:

During maintenance work on vehicle the side struts must be cleaned and greased.

Use only cleaning felts and greases approved by Daimler AG. On vehicles which are exposed to high dust influence, it can be necessary to clean and grease the side struts in between the maintenance operations.

Roof cassette locks:

The roof cassette locks can also be cleaned and greased during maintenance work.

Grease roof cassette locks only at specified points using types of grease approved by Daimler AG only.

Ensure that the springs on the microswitch are not damaged or bent.

Drive cable for soft top:

Do not grease or oil drive cable on soft top.

The drive cables are moistened with a special oil at the factory.

Soft top:

After replacing the soft top or rear soft top, increased closing forces can occur on the soft top and retaining clip.

The vehicle must stand with closed soft top for at least 12 h at room temperature.

TESTING & REPAIR > TESTING AND REPAIR WORK: SMART: SLIDING ROOF, SOFT TOP, TOP ATTACHMENTS - AR77.00-Z-9451CA >

MODEL 451

Remove, install side support seal	MODEL 451.4	AR77.33-P-1010MCO
Remove, install rear soft top drive wiring harness	MODEL 451.4 Left wiring harness	AR77.39-P-1010MCO

Remove, install rear soft top drive wiring harness	MODEL 451.4 Left wiring harness	AR77.39-P-1010MCU
Remove, install rear soft top drive wiring harness	MODEL 451.4 Right wiring harness	AR77.39-P-1010MCV
Remove, install rear soft top window	MODEL 451.4	AR77.35-P-1000MCO
Remove, install rear soft top window seal	MODEL 451.4	AR77.35-P-1001MCO
Remove/install arresting bolt on rear soft top retaining clip	MODEL 451.4	AR77.30-P-1152MCO
Remove/install B-pillar catch	MODEL 451.4	AR77.33-P-2100MCO
Remove/install B-pillar catch	MODEL 451.4	AR77.33-P-2100MCU
Remove/install centering aid	MODEL 451.4	AR77.33-P-2020MCO
Remove/install folding top	MODEL 451.4	AR77.30-P-1100MCO
Remove/install folding top	MODEL 451.4	AR77.30-P-1100MCU
Remove/install folding top motor	MODEL 451.4	AR77.39-P-4000MCO
Remove/install folding top motor	MODEL 451.4	AR77.39-P-4000MCU
Remove/install guide tube for drive cable	MODEL 451.4	AR77.30-P-1112MCO
Remove/install guide tube for drive cable	MODEL 451.4	AR77.30-P-1112MCU
Remove/install headliner	MODEL 451.4	AR77.31-P-1005MCO
Remove/install power soft top switch	MODEL 451.4	AR77.39-P-1000MCC
Remove/install power soft top switch	MODEL 451.4	AR77.39-P-1000MCU
Remove/install rear soft top	MODEL 451.4	AR77.30-P-1150MCO
Remove/install rear soft top	MODEL 451.4	AR77.30-P-1150MCU
Remove/install rear soft top drive wiring harness	MODEL 451.4 Right wiring harness	AR77.39-P-1010MCP
Remove/install rear soft top motor	MODEL 451.4	AR77.39-P-4010MCO
Remove/install rear soft top motor	MODEL 451.4	AR77.39-P-4010MCU
Remove/install rear soft top retaining clip	MODEL 451.4	AR77.30-P-1151MCO
Remove/install roller sun blind on panoramic sunroof	MODEL 451.3 with CODE (E22) Glass roof (FFO)	AR77.21-P-0205MCC
Remove/install roller sun blind on panoramic sunroof	MODEL 451.3 with CODE (E22) Glass roof (FFO)	AR77.21-P-0205MCU
Remove/install roof cassette spoiler	MODEL 451.4	AR77.33-P-2030MCO
Remove/install roof cassette spoiler	MODEL 451.4	AR77.33-P-2030MCU
Remove/install roof peak seal	MODEL 451.4	AR77.30-P-3352MCC

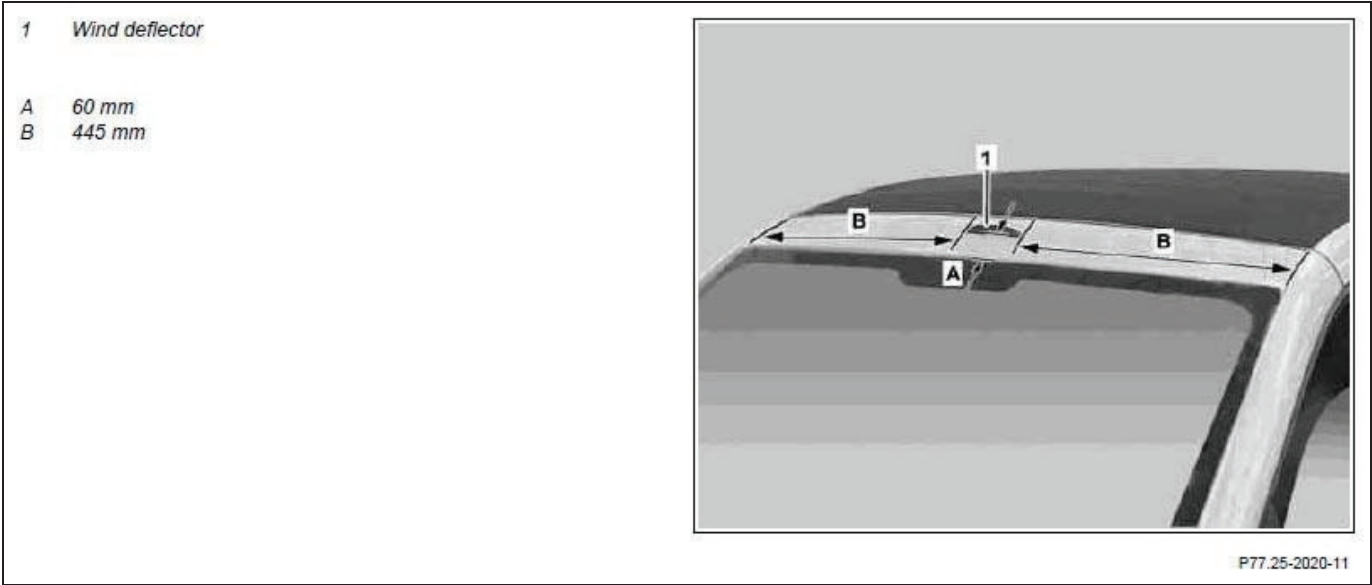
Remove/install roof peak seal	MODEL 451.4	AR77.30-P-3352MCU
Remove/install roof peak sliding plate	MODEL 451.4	AR77.33-P-2010MCO
Remove/install roof peak sliding plate	MODEL 451.4	AR77.33-P-2010MCU
Remove/install side support bearing	MODEL 451.4	AR77.33-P-1008MCO
Remove/install side wall seal	MODEL 451.4	AR77.30-P-3350MCC
Remove/install soft top bow on soft top	MODEL 451.4	AR77.30-P-1200MCO
Remove/install soft top bow on soft top	MODEL 451.4	AR77.30-P-1200MCU
Remove/install soft top bow slider	MODEL 451.4	AR77.33-P-2000MCO
Remove/install soft top bow slider	MODEL 451.4	AR77.33-P-2000MCU
Remove/install soft top drive cable	MODEL 451.4	AR77.30-P-1104MCO
Remove/install soft top drive cable	MODEL 451.4	AR77.30-P-1104MCU
Remove/install soft top main bearing	MODEL 451.4 Left main bearing	AR77.30-P-1108MCO
Remove/install soft top main bearing	MODEL 451.4 Right main bearing	AR77.30-P-1108MCP
Remove/install soft top main bearing	MODEL 451.4 Left main bearing	AR77.30-P-1108MCU
Remove/install soft top main bearing	MODEL 451.4 Right main bearing	AR77.30-P-1108MCV
Remove/install soft top roof cassette	MODEL 451.4	AR77.30-P-1103MCO
Remove/install soft top roof cassette	MODEL 451.4	AR77.30-P-1103MCU
Remove/install soft top roof cassette	MODEL 451.4	AR77.30-P-1109MCO
Remove/install soft top roof cassette	MODEL 451.4	AR77.30-P-1109MCU
Remove/install soft top roof cassette plug	MODEL 451.4	AR77.30-P-1110MCO
Remove/install soft top roof cassette plug	MODEL 451.4	AR77.30-P-1110MCU
Remove/install wind deflector	MODEL 451.4	AR77.25-P-1000MCO
Tension folding top	MODEL 451.4	AR77.30-P-1102MCO
Tension folding top	MODEL 451.4	AR77.30-P-1102MCU

TESTING & REPAIR > REMOVE/INSTALL WIND DEFLECTOR - AR77.25-P-1000MCO >

MODEL 451.4

Dimensions:

Fig 1: Identifying Wind Deflector Dimensions



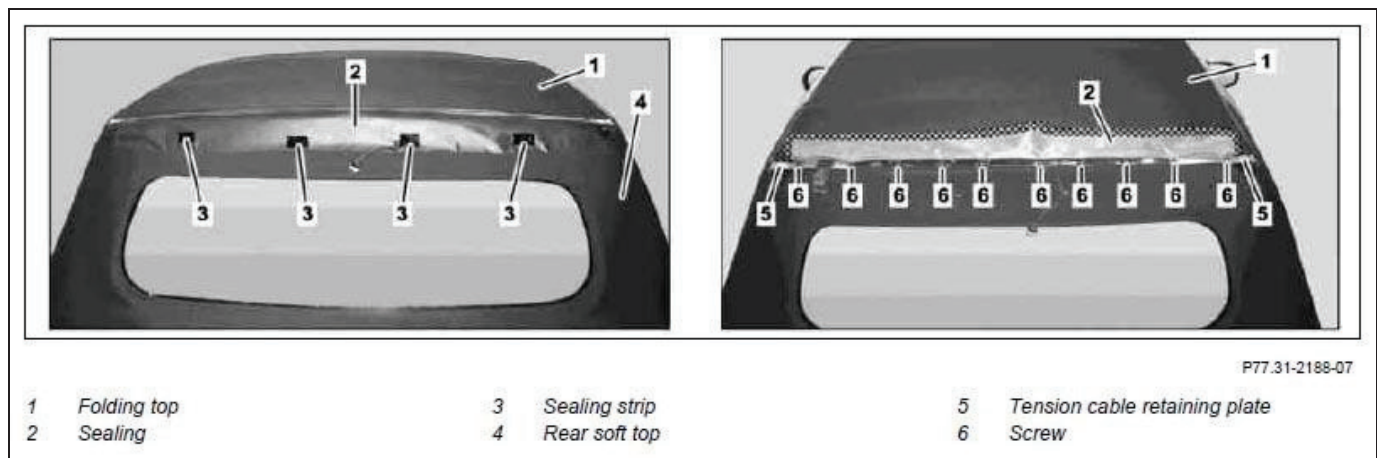
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Removing	
1	Mark position of wind deflector (1) with suitable adhesive tape.	
2	Heat wind deflector (1) with hot air gun and remove.	Hot air blower http://gotis.aftersales.mercedes-benz.com
3	Remove glue residues with suitable cleaning agent.	
	Install	
4	Measure position of wind deflector (1) and mark according to dimensions (A and B) with suitable adhesive tape.	
5	Clean gluing surfaces on roof paneling using suitable cleaning agent.	ⓘ The bonding surface must be dry, free of dust and grease; otherwise adhesive force of glue starts to decrease.
6	Remove protective foil from wind deflector (1), position wind deflector (1) and glue on.	ⓘ Do not touch bonding surface or remove and reglue wind deflector (1) after gluing on; otherwise adhesive force of glue starts to decrease.
7	Remove tape	

TESTING & REPAIR > REMOVE/INSTALL FOLDING TOP - AR77.30-P-1100MCU >

MODEL 451.4

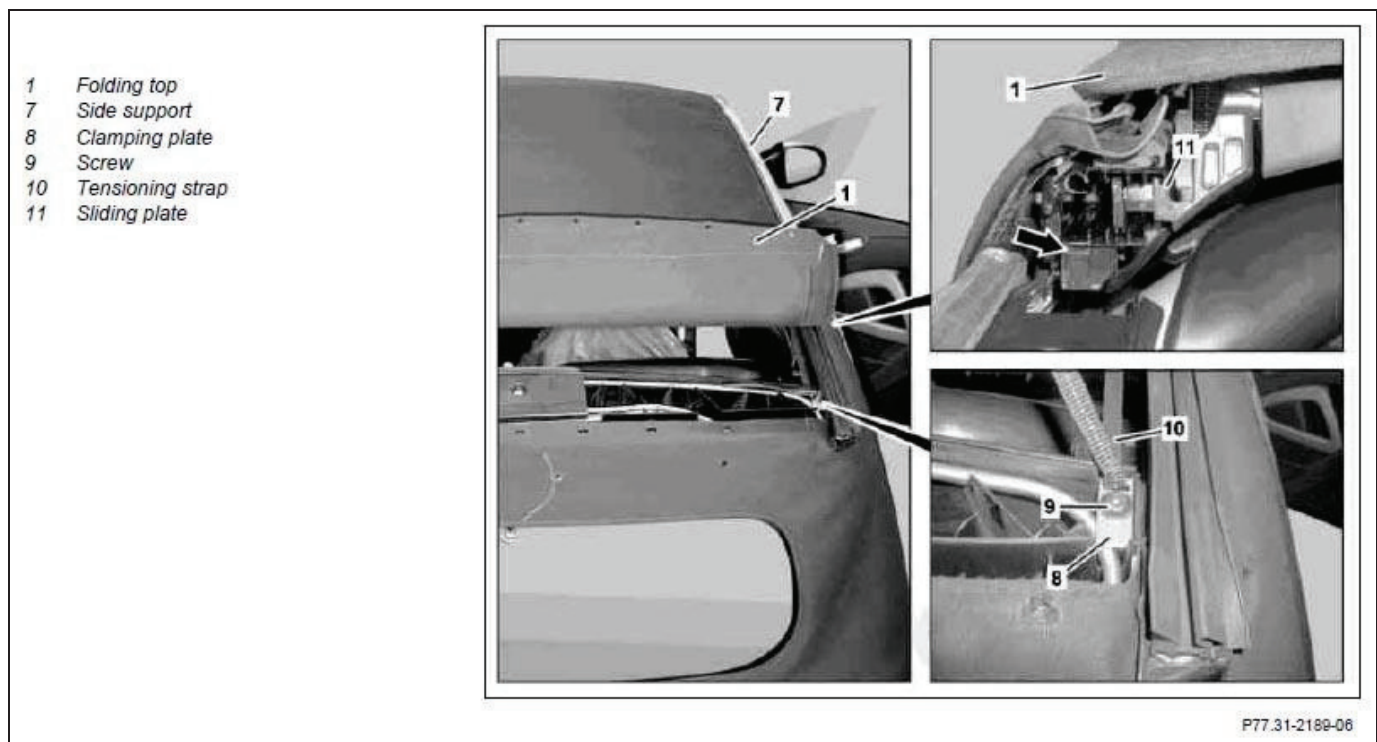
Fig 1: Identifying Folding Top Components (1 Of 4)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Shown on right side of vehicle

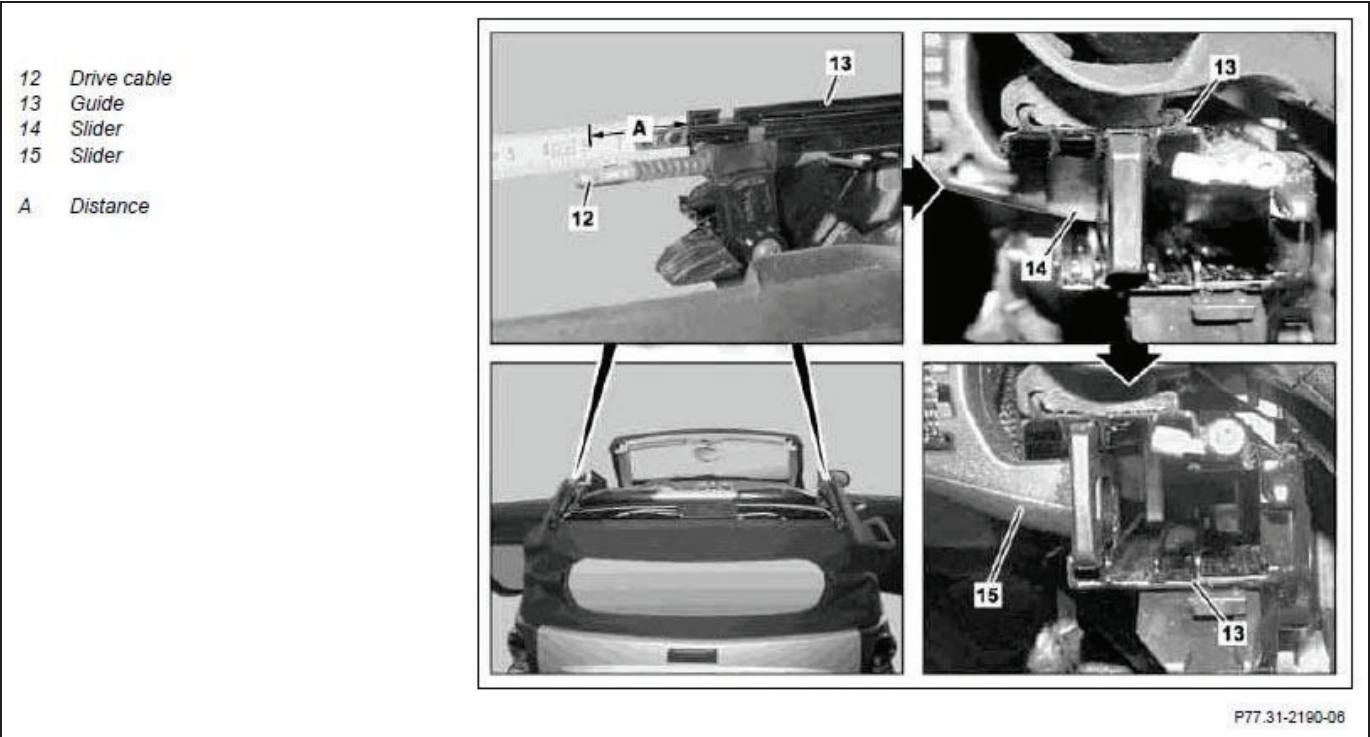
Fig 2: Identifying Folding Top Components (2 Of 4)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

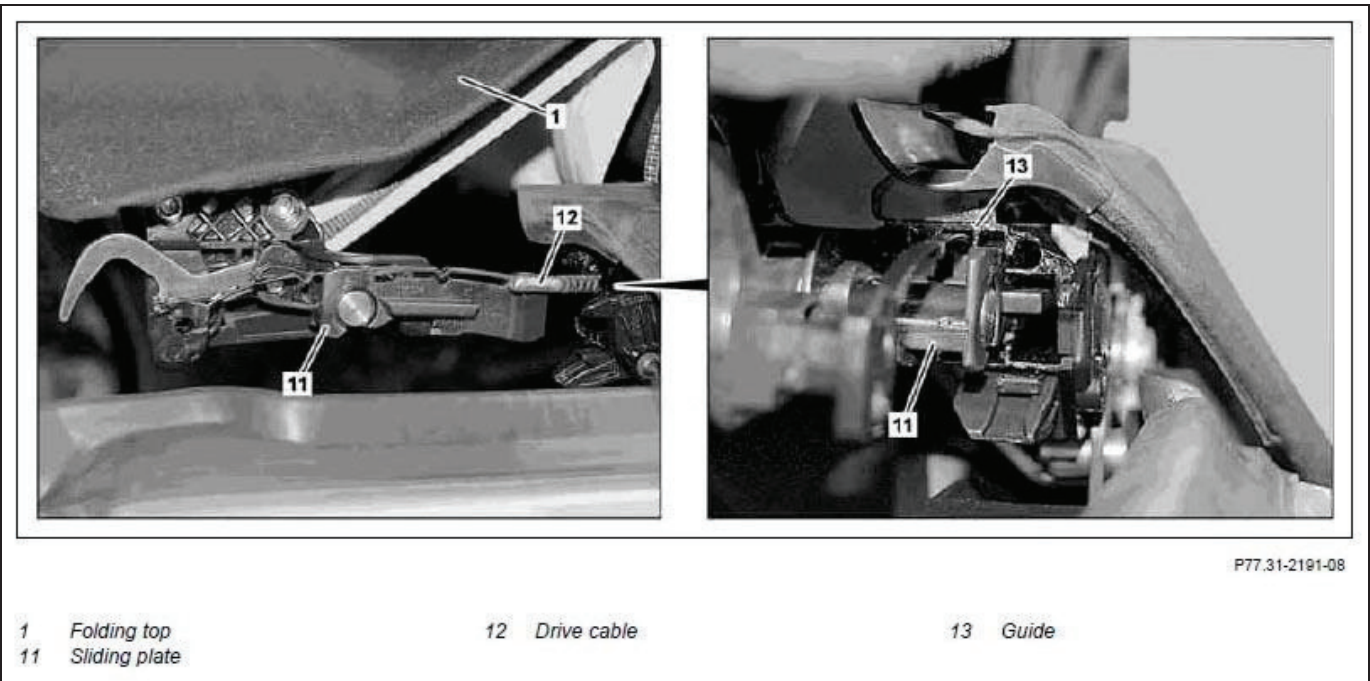
Shown on left side of vehicle

Fig 3: Identifying Folding Top Components (3 Of 4)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.







Fig 4: Identifying Folding Top Components (4 Of 4)






Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Shown on right side of vehicle

	Removing	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove spoiler on roof cassette	AR77.33-P-2030MCU

2	Remove inside roof lining	AR77.31-P-1005MCO
3	Remove seal (2) from rear soft top (4) and fold toward front.	
4	Unscrew bolts (6) and fold soft top (1) toward front.	
5	Mark length of tensioning straps (10) on roof cassette.	
6	Unscrew bolts (9), remove clamping plates (8) and pull tensioning straps (10) out of clamping plates (8) and roof cassette.	
7	Remove side supports (7).	
8	Actuate both side support recognition sensors (arrow), simultaneously actuate power soft top switch in closing direction and extend soft top (1) until sliding rails (11) are exposed.	 Aid of 2 helpers required.
9	Unhook drive cable (12) from sliding rails (11).	
10	Pull soft top (1) with sliding rails (14 and 15) out of guides (13) on roof cassette.	 Aid of helper required.
11	Remove soft top (1) and put down.	 Aid of helper required.
	Install	
12	Connect STAR DIAGNOSIS, select soft top control, select power soft top switch and erase coding.	
 AD	Connect STAR DIAGNOSIS and read out fault memory	AD00.00-P-2000-04MCC
13	Measure distance (A) between drive cable (12) and guides (13).	 The distance (A) should be equal on the left and right; if the difference is > 1 mm, adjust drive cables (12) so that they run synchronous to one another: ↓
	Remove/install soft top drive cable	AR77.30-P-1104MCU

14	Slide soft top (1) with rear sliding rails (14) into guides (13) on roof cassette.	ⓘ Push sliding rail (14) into center channel of guides (13); erroneous positioning can lead to damage on the soft top system.
		ⓘ Aid of helper required.
15	Slide soft top (1) with center sliding rails (15) into guides (13) on roof cassette.	ⓘ Push sliding rail (15) into inner channel of guides (13); erroneous positioning can lead to damage on the soft top system.
		ⓘ Aid of helper required.
16	Hook sliding plates (11) into drive cable (12).	ⓘ Aid of helper required.
17	Align sliding plates (11) as shown and carefully pull into guides (13) on roof cassette by actuating power soft top switch.	ⓘ Pull sliding plates (11) into outer and center channel of guides (13); erroneous positioning can lead to damage on the soft top system.
		ⓘ Aid of 2 helpers required.
18	Pull tensioning straps (10) into roof cassette and clamping plates (8).	ⓘ The tensioning straps (10) should not be twisted.
19	Align tensioning straps (10) and clamping plates (8) according to marking and tighten bolts (9).	
20	Install side supports (7).	
21	Close soft top (1).	
22	Fold back soft top (1) and check tension of tensioning straps (10).	ⓘ The side edges of the soft top (1) should be flush with the contour of the side supports (7).
23	Open soft top (1) approx. 10 cm.	
24	Align tension cable retaining plates (5) and tighten bolts (6).	ⓘ Ensure that creases are not present in the soft top covering (1).

25	Attach double-sided adhesive tape in crosshatched areas of seal (2), remove protective foil and glue seal (2) to soft top (4) without creases.	 Remove loose pieces of old adhesive tape; it is not necessary to remove areas with good adhesion.	*BR00.45-Z-1022-02B
		Use double-sided adhesive tape with a width of 19 or 25 cm.	
26	Install headliner		AR77.31-P-1005MCO
27	Install roof cassette spoiler	 Replace sealing strip (3) before installing roof cassette spoiler.	AR77.33-P-2030MCU
28	Restore coding of power soft top switch, read out fault memory and connect STAR DIAGNOSIS		
 AD	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04MCC
29	Perform function test and check soft top (1) for creases.		

REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1022-02B	Teroson double sided adhesive tapeFor bonding trim strips and emblem (UV and weather-resistant, black)	www.henkel.com

TESTING & REPAIR > TENSION FOLDING TOP - AR77.30-P-1102MCU >

MODEL 451.4

Fig 1: Identifying Folding Top Components (1 Of 2)

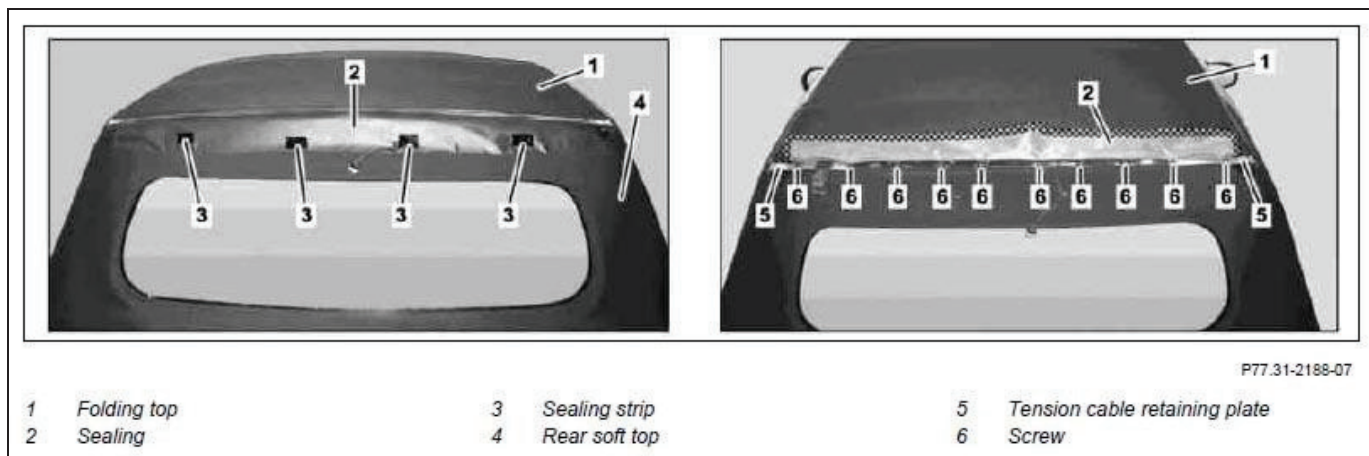
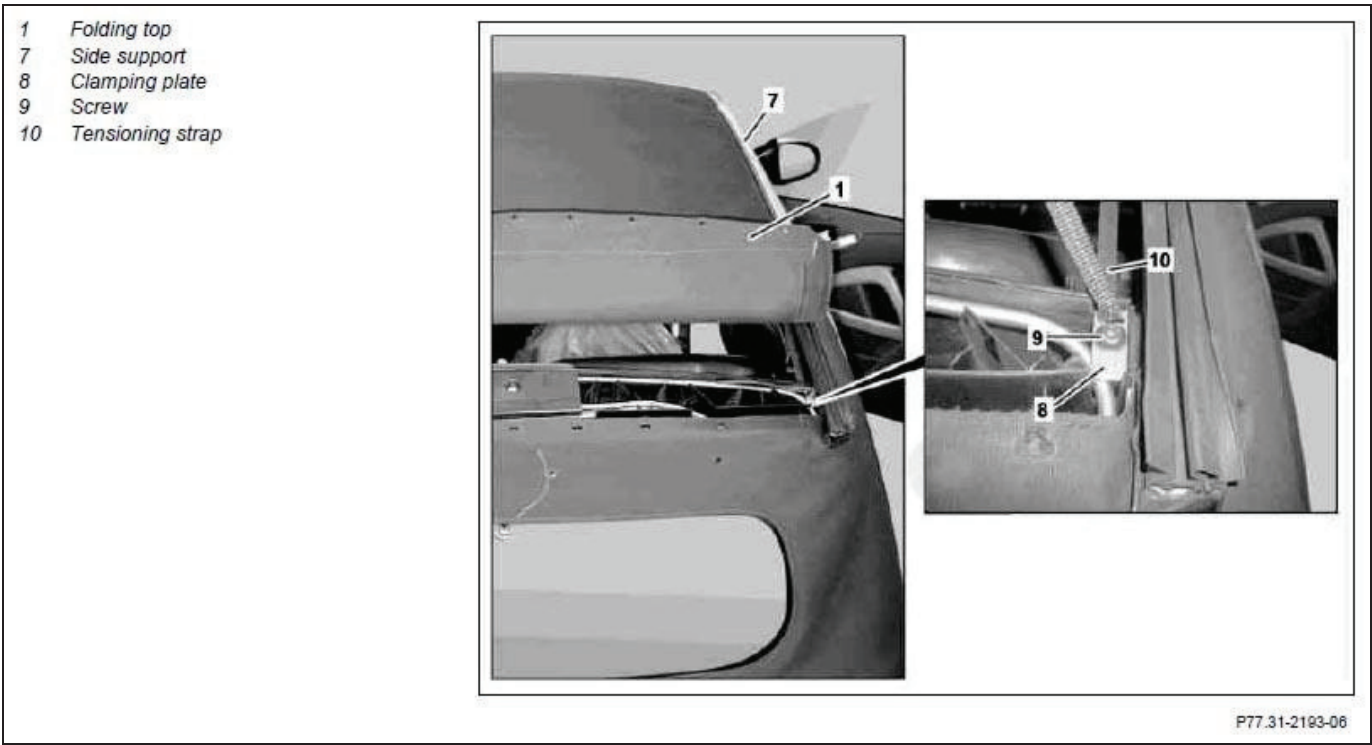





Fig 2: Identifying Folding Top Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Removing	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove spoiler on roof cassette	AR77.33-P-2030MCU
2	Remove seal (2) from rear soft top (4) and fold toward front.	
3	Unscrew bolts (6) and fold soft top (1) toward front.	
4	Loosen bolts (9)	
	Install	
5	Tension tensioning strap (10) on left and right, align clamping plate (8) and tighten bolt (9).	The side edges of the soft top (1) should be flush with the contour of the side supports (7).
6	Open soft top (1) and close again.	
7	Fold back soft top (1) and check tension of tensioning straps (10).	The side edges of the soft top (1) should be flush with the contour of the side supports (7).
8	Open soft top (1) approx. 10	

	cm		
9	Align tension cable retaining plates (5) and tighten bolts (6).	 Ensure that creases are not present in the soft top covering (1).	
10	Attach double-sided adhesive tape in crosshatched areas of seal (2), remove protective foil and glue seal (2) to soft top (4) without creases.	 Remove loose pieces of old adhesive tape; it is not necessary to remove areas with good adhesion.	*BR00.45-Z-1022-02B
		Use double-sided adhesive tape with a width of 19 or 25 cm.	
11	Install roof cassette spoiler	 Replace sealing strip (3) before installing roof cassette spoiler.	AR77.33-P-2030MCU
12	Perform a function test		

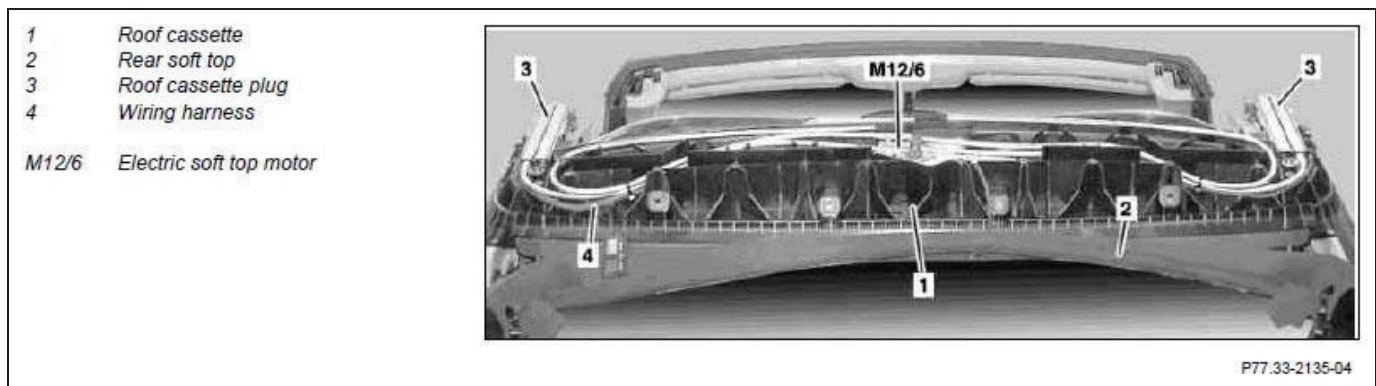
REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1022-02B	Teroson double sided adhesive tapeFor bonding trim strips and emblem (UV and weather-resistant, black)	www.henkel.com

TESTING & REPAIR > REMOVE/INSTALL SOFT TOP ROOF CASSETTE - AR77.30-P-1103MCU >

MODEL 451.4

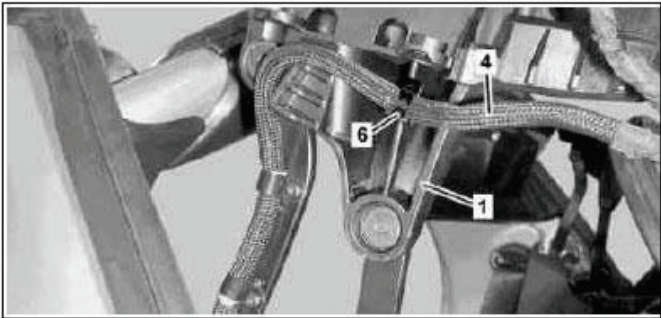
Fig 1: Identifying Soft Top Roof Cassette Components (1 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Soft Top Roof Cassette Components (2 Of 2)

- 1 Roof cassette
- 4 Wiring harness
- 6 Cable tie



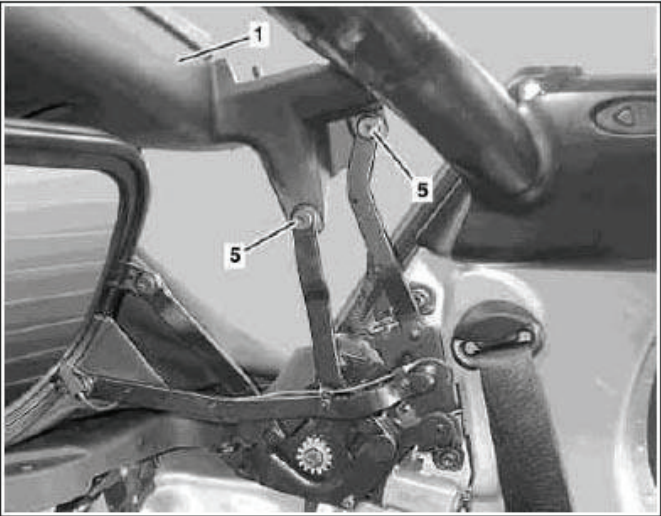
P77.33-2139-10

Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Shown on left side of vehicle




Fig 3: Identifying Soft Top Roof Cassette & Screws

- 1 Roof cassette
- 5 Screw



P77.33-2134-11

Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

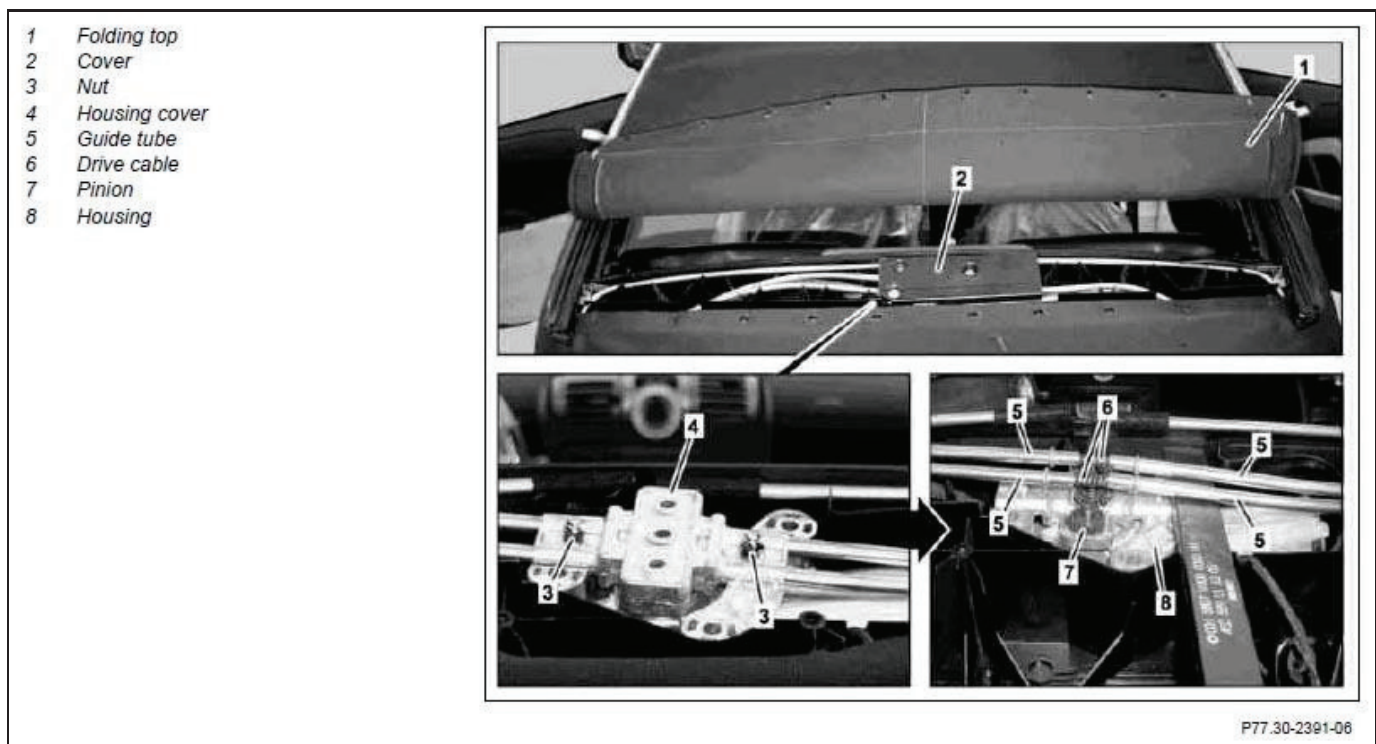
	Remove/install	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove roof cassette locks (3).	AR77.30-P-1110MCU
2	Remove electric soft top motor (M12/6)	AR77.39-P-4000MCU
3	Cut cable tie (6)	
<div>Guide electric wiring harness (4) out</div> <div> Installation: Ensure that electric</div>		

4	of roof cassette (1).	wiring harness (4) is routed without chafing and tension.
5	Pull retaining tap on rear soft top (2) out of roof cassette (1).	
6	Unscrew bolts (5) on left and right of roof cassette (1) and remove roof cassette (1)	
7	Install in the reverse order	
8	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL SOFT TOP DRIVE CABLE - AR77.30-P-1104MCU

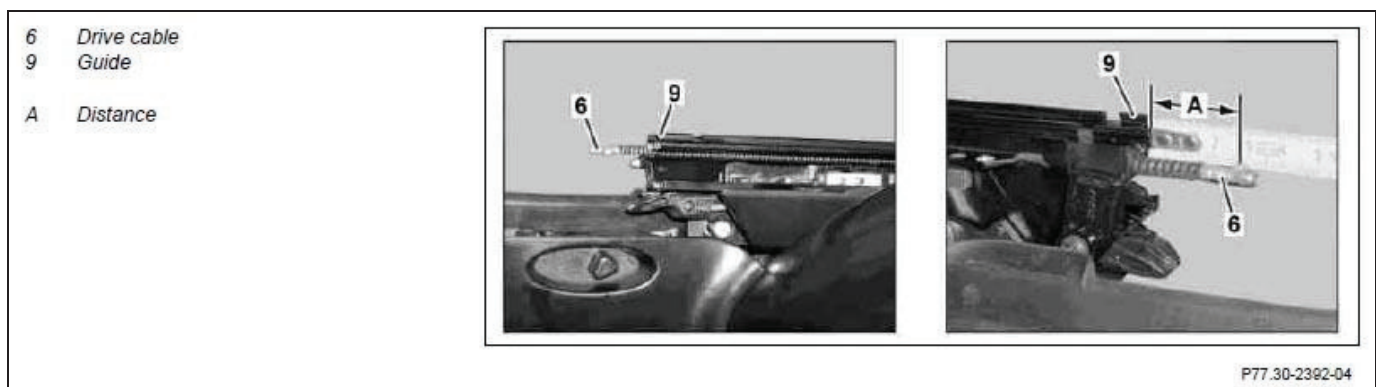
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Fig 1: Identifying Soft Top Drive Cable Components (1 Of 2)







Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Soft Top Drive Cable Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

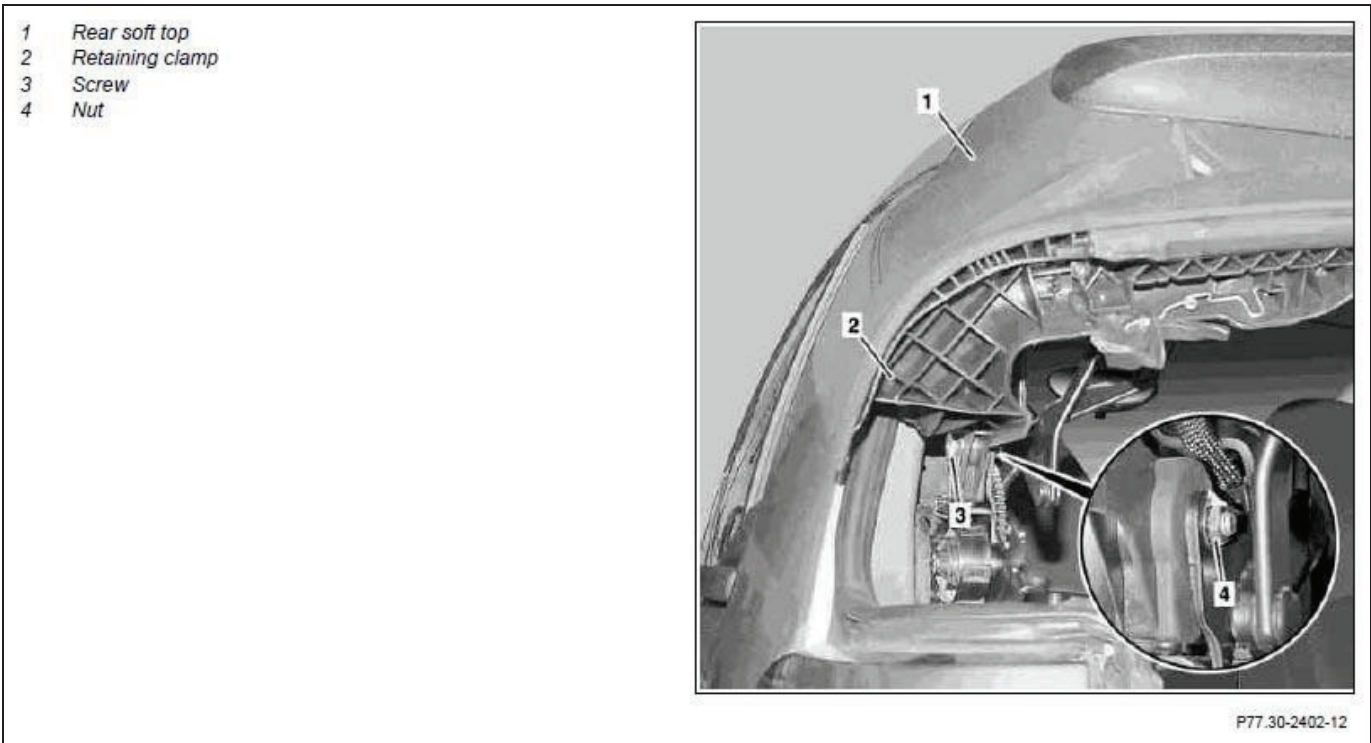
	Removing	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove soft top (1).	AR77.30-P-1100MCU
2	Remove cover (2)	
3	Unscrew nuts (3) and remove housing cover (4).	
4	Lift guide tube (5) on drive cable (6).	
5	Pull drive cable (6) out of guides (9).	
	Install	
6	Insert drive cable (6) into guides (9) until the distance (A) between ends of drive cable (6) and guides (9) is same on left and right.	
7	Insert guide tubes (5) and drive cable (6) into housing (8).	
8	Position pinion (7) and install housing cover (4).	
9	Check distance (A) between drive cable (6) and guides (9).	 The distance (A) between the ends of the drive cable (6) and the guides (9) should have the same on left and right, if applicable remove housing cover (4), lift guide tube (5) and reposition drive cable (6); perform operation steps 7 to 9 again.
10	Tighten nuts (3)	
11	Install cover (2)	
12	Install soft top (1).	AR77.30-P-1100MCU
13	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL SOFT TOP MAIN BEARING - AR77.30-P-1108MCU >

MODEL 451.4

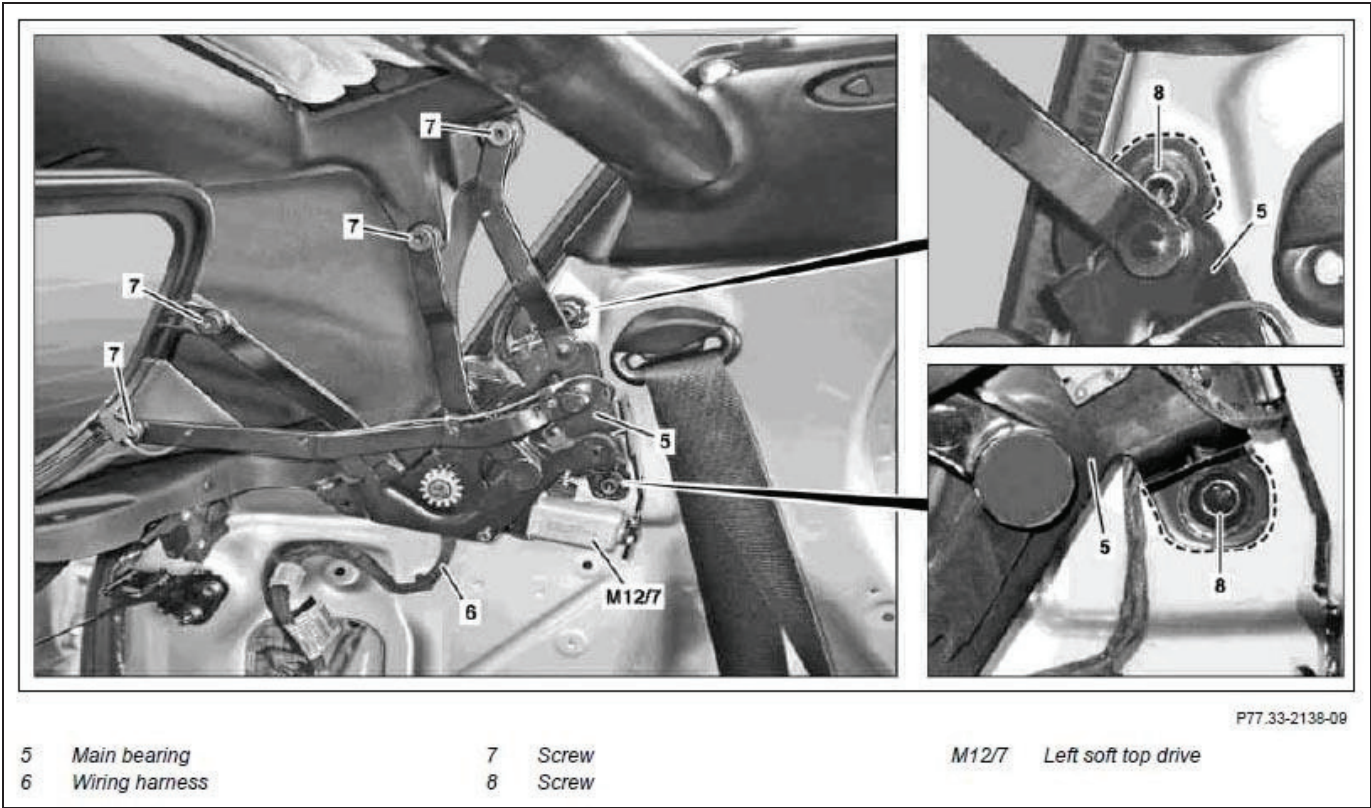
Left main bearing

Fig 1: Identifying Soft Top Main Bearing Components (1 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.



Fig 2: Identifying Soft Top Main Bearing Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.



Remove/install

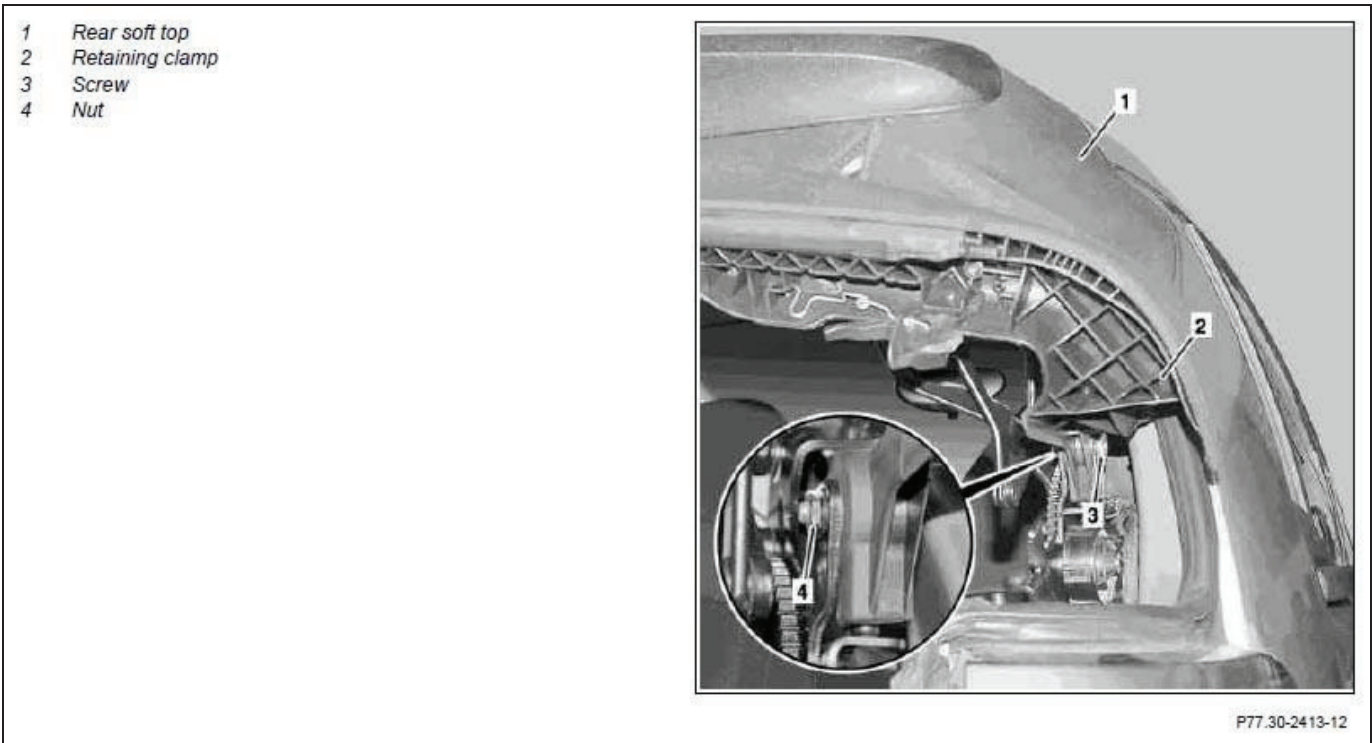
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Open rear soft top (1) and unscrew bolt (3) on retaining clip (2).	
2	Remove left soft top drive (M12/7)	AR77.39-P-4010MCU
3	Remove electric wiring harness (6) from main bearing (5).	AR77.39-P-1010MCU
4	Mark position of fastening points on main bearing (5) with suitable marker (broken lines).	
5	Remove bolts (7)	 Installation: Helper required to position roof cassette.
6	Unscrew bolts (8) and remove main bearing (5).	
7	Install in the reverse order	
8	Remove marks (broken lines) with suitable cleaning agent.	
9	Adjust retaining clip (2) on rear soft top (1).	AR77.30-P-1151-01MCO
10	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL SOFT TOP MAIN BEARING - AR77.30-P-1108MCV >

MODEL 451.4

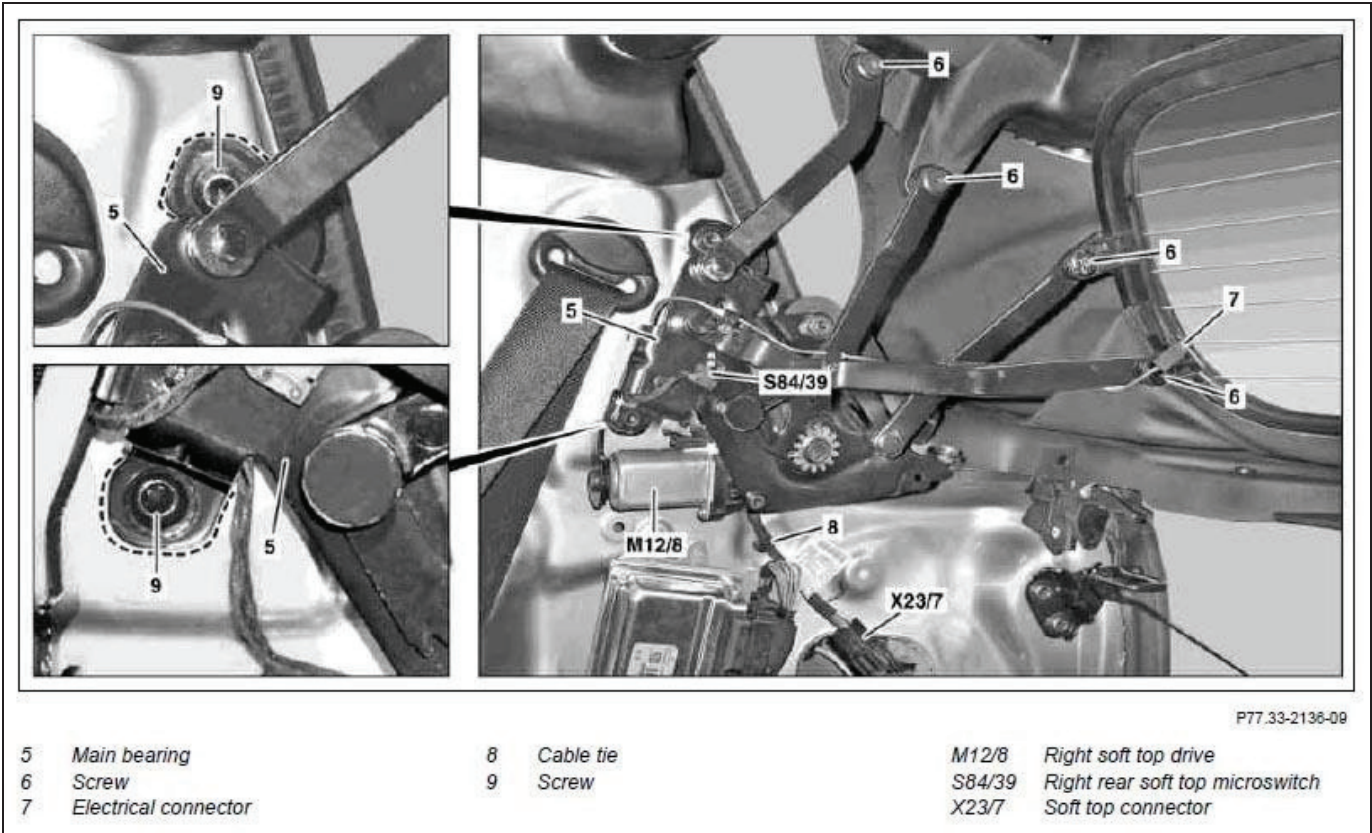
Right main bearing

Fig 1: Identifying Soft Top Main Bearing Components (1 Of 3)



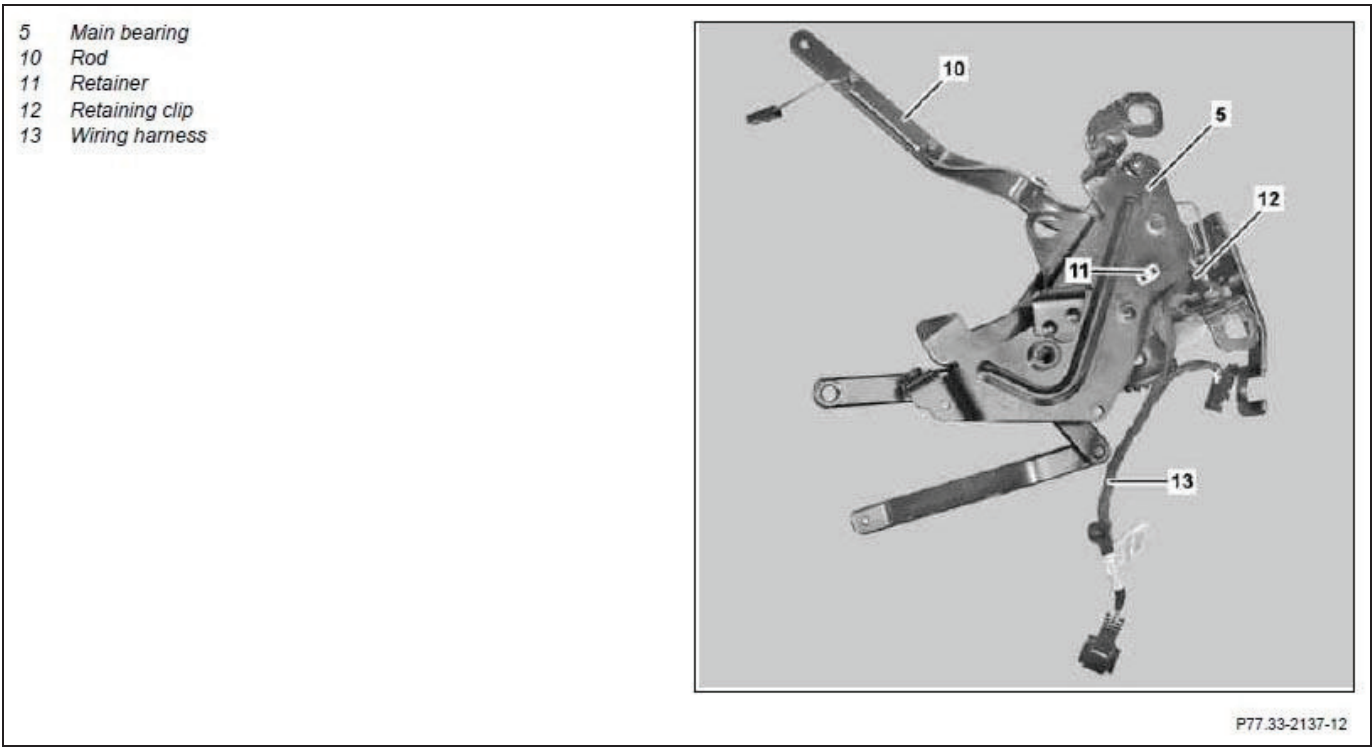
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Soft Top Main Bearing Components (2 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 3: Identifying Soft Top Main Bearing Components (3 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

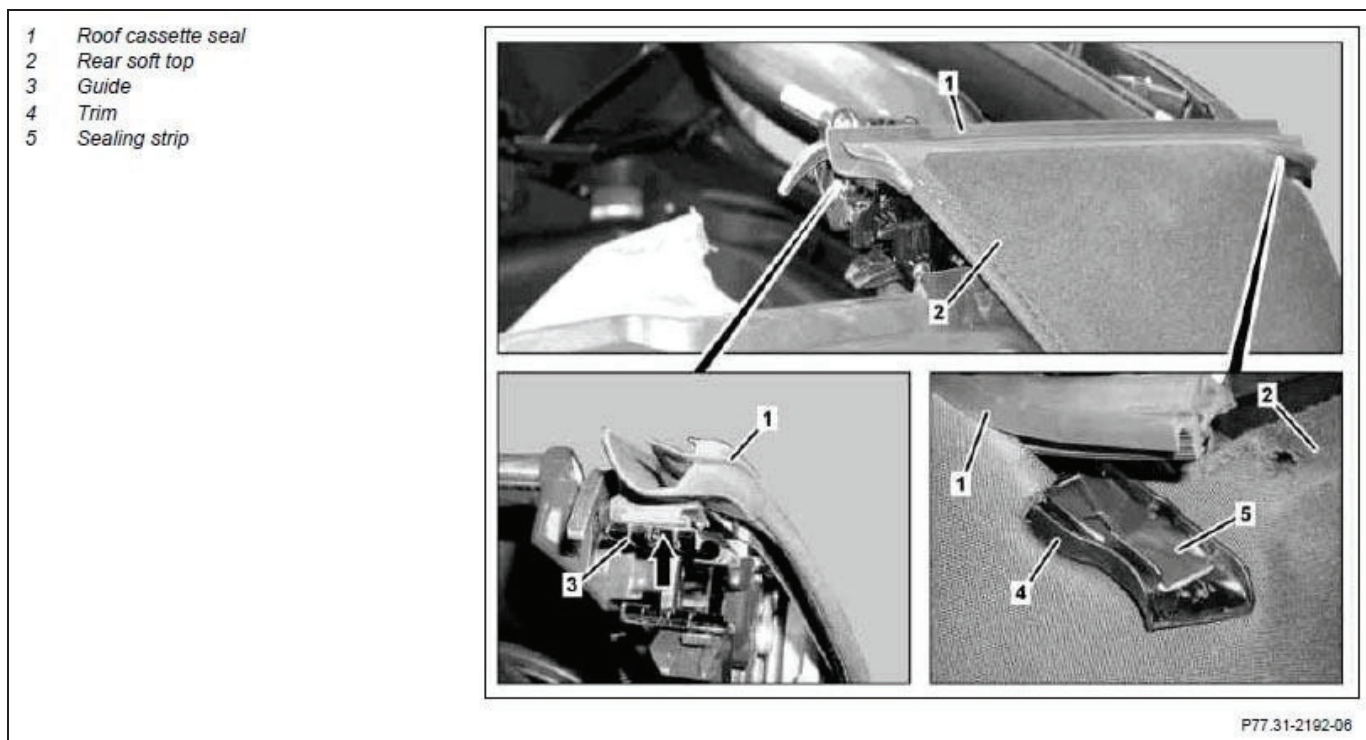
<div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div>Remove/install</div>	
<div><div></div><div></div></div> <div>Notes on soft tops</div>	AH77.30- P-0001- 01MCO
1	Open rear soft top (1) and unscrew bolt (3) on retaining clip (2).
2	Remove right soft top drive (M12/8) <div>AR77.39- P- 4010MCU</div>
3	Guide soft top connector (X23/7) out of B-pillar, disconnect and remove cable tie (8)
4	Disconnect electrical connector (7)
5	Mark position of fastening points on main bearing (5) with suitable marker (broken lines).
6	Remove bolts (6) <div><div><div></div><div></div></div><div>Installation: Helper required to position roof cassette.</div></div>
7	Unscrew bolts (9) and remove main bearing (5).
8	Remove electric wiring harness (13) from steering wheel (10).

9	Remove retainer (11) from retaining bolts of right rear soft top microswitch (S84/39) using suitable tool and remove right rear soft top microswitch (S84/39)	ⓘ Do not damage retaining bolts, otherwise it is necessary to replace the electric wiring harness (13).
10	Remove retaining clip (12) from main bearing (5) and remove electric wiring harness (13)	ⓘ Installation: Route electric wiring harness (13) to prevent it from being damaged by chafing and pinching, otherwise electric wiring harness (13) must be replaced.
11	Install in the reverse order	
12	Remove marks (broken lines) with suitable cleaning agent.	
13	Adjust retaining clip (2) on rear soft top (1).	AR77.30-P-1151-01MCO
14	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL SOFT TOP ROOF CASSETTE - AR77.30-P-1109MCU >






MODEL 451.4

Fig 1: Identifying Soft Top Roof Cassette Components



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

⊞	Removing	
i	Notes on soft tops	AH77.30-P-0001-01MCO

1	Remove folding soft top	AR77.30-P-1100MCU
2	Pull roof cassette seal (1) on left and right, from rear toward front, out of guide (3)	 Detach glued front area on roof cassette seal (1) if necessary with suitable tool.
3	Remove sealant and glue residues in front area of guide (3).	
4	Remove old sealant from paneling (4).	
	Install	
5	Insert roof cassette seal (1) from front toward rear into guide (3).	 Insert roof cassette seal (1) so that it is flush with the guide (3).The sealing lip on the roof cassette seal (1) should make contact with rear soft top covering (2) over the entire length.
6	Lift roof cassette seal (1) at front (arrow) and additionally glue to guide (3).	*BR00.45-Z-1095-02A
7	Lift roof cassette seal (1) at rear and attach sealing strip (5) to paneling (4).	 Cut sealing strip (5) so that it is approx. 50 mm long. *BR00.45-Z-1091-01A
8	Remove protective foil from sealing strip (5) and press on roof cassette seal (1).	 The sealing lip on the roof cassette seal (1) should make contact with the rear soft top covering (2) over the entire length.
9	Install folding soft top	AR77.30-P-1100MCU
10	Perform a function test	

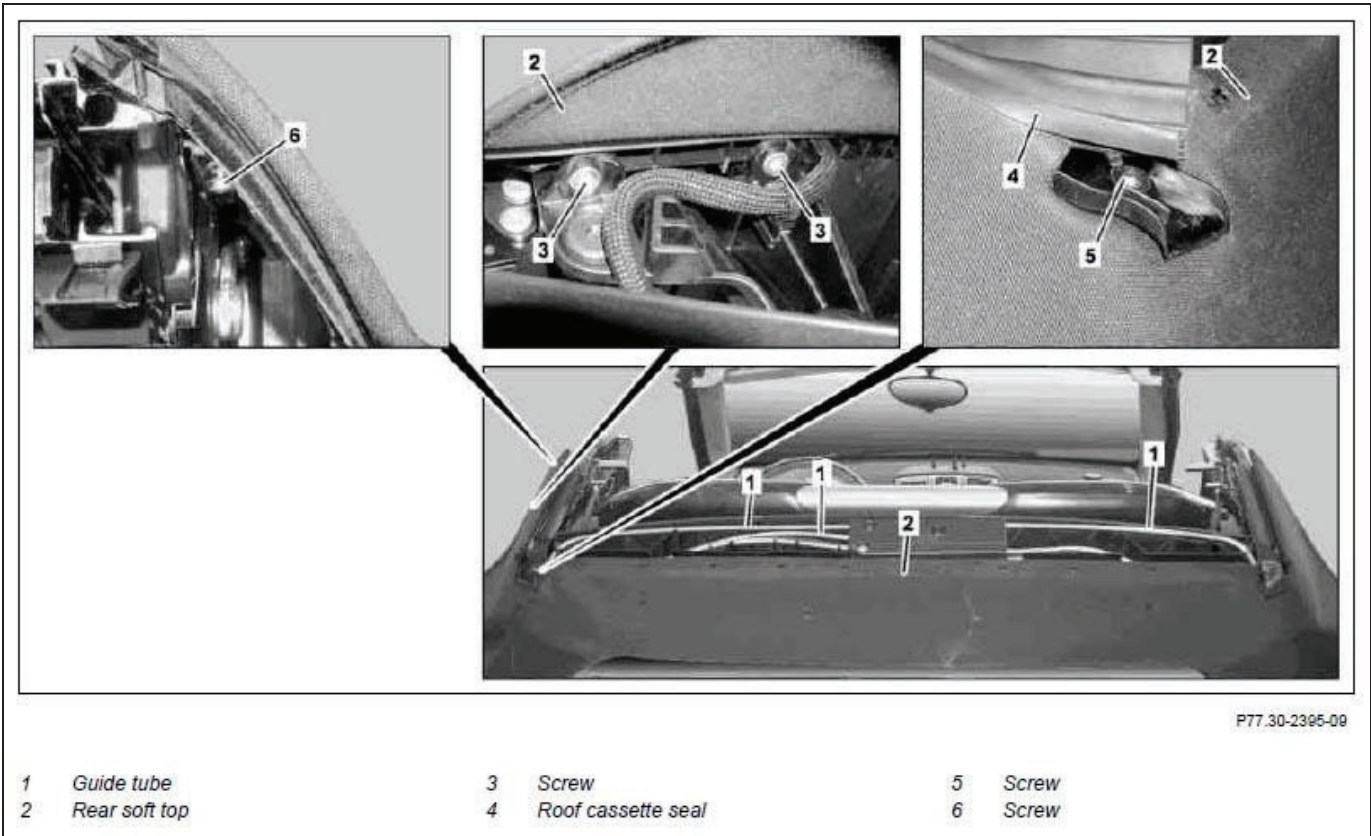
REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1091-01A	Sealing strip 119.32 Terostat 20 x2 mm	www.henkel.com
BR00.45-Z-1095-02A	Ultra-fast super glue 20g. Sabesto	Adolf Wurth GmbH&Co. KGReinhold-Wurth-Str. 12- 1774653 Kunzelsau- GaisbachGermanyTel. +49 7940 15-0Fax +49 7940 15- 1000www.wuerth.deArt. no.: 089309

MODEL 451.4

Shown on left side of vehicle

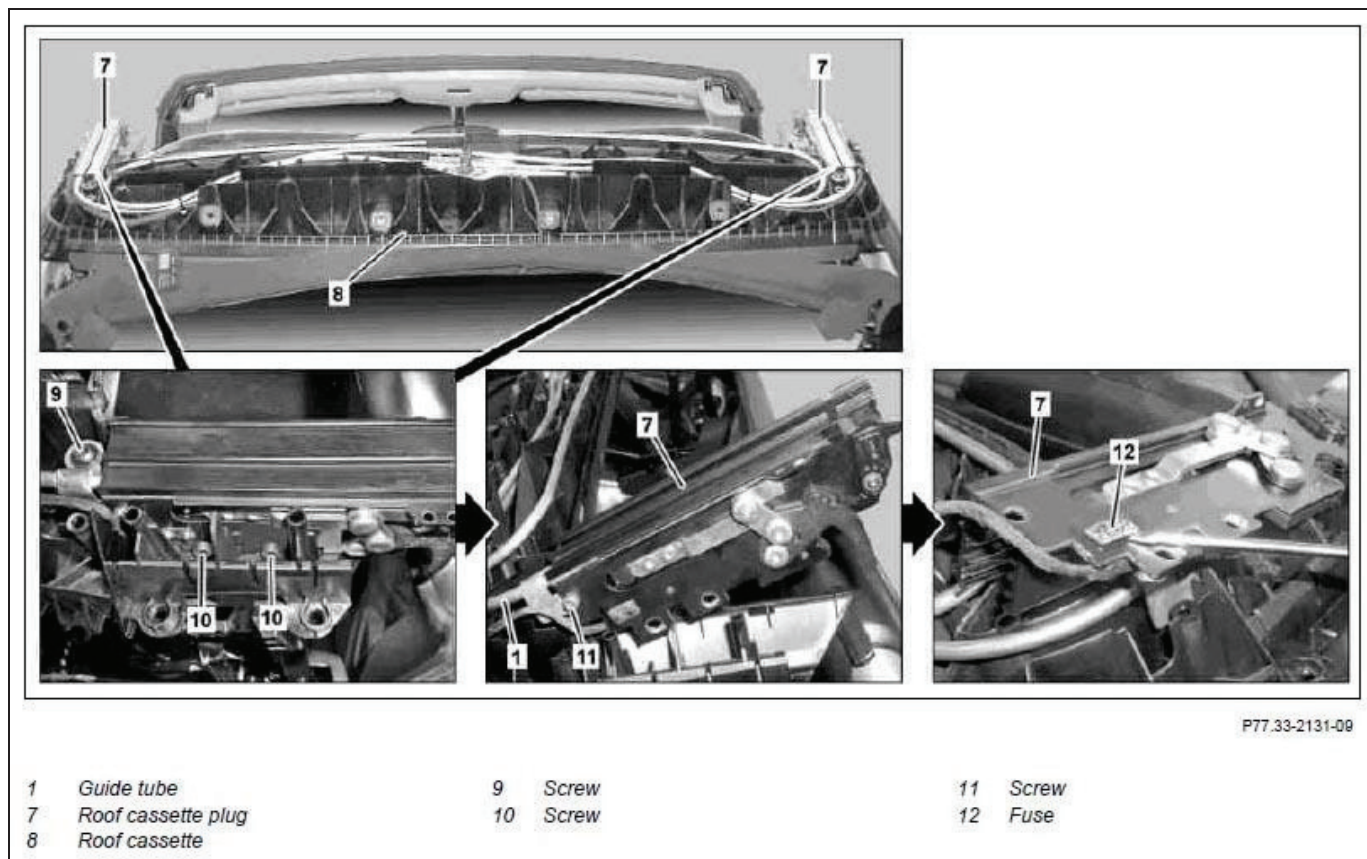
Fig 1: Identifying Soft Top Roof Cassette Plug Components (Shown On Left Side Of Vehicle)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

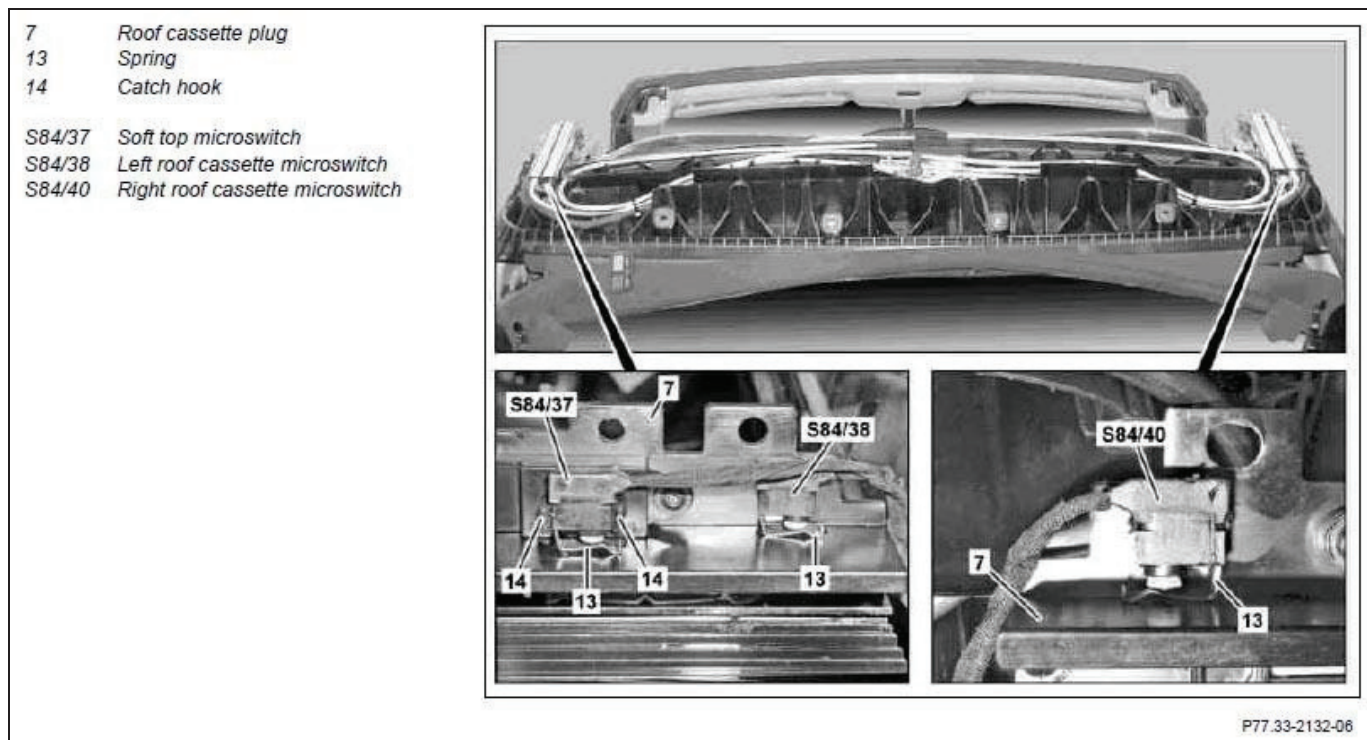
Shown on right side of vehicle

Fig 2: Identifying Soft Top Roof Cassette Plug Components - Shown On Right Side Of Vehicle (1 Of 4)



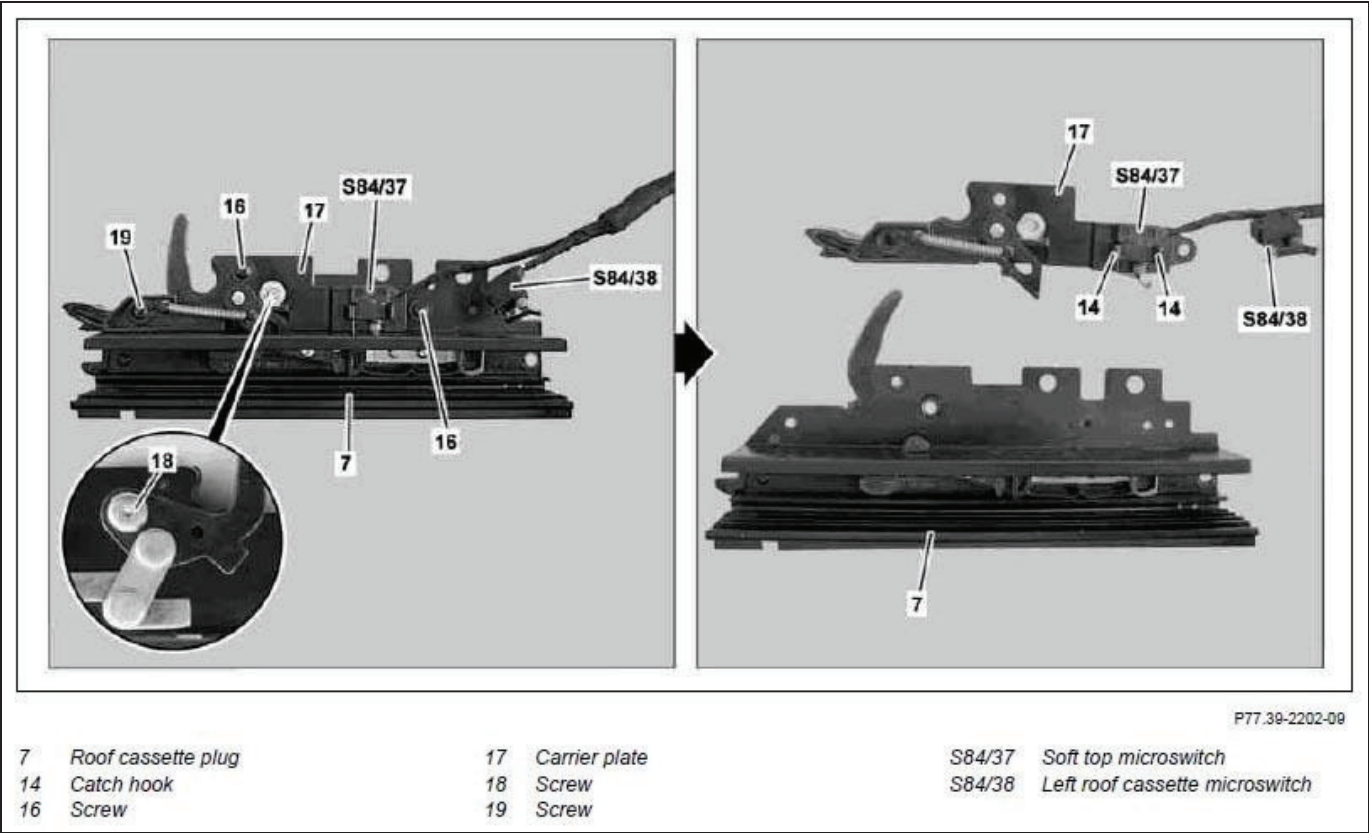
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 3: Identifying Soft Top Roof Cassette Plug Components - Shown On Right Side Of Vehicle (2 Of 4)



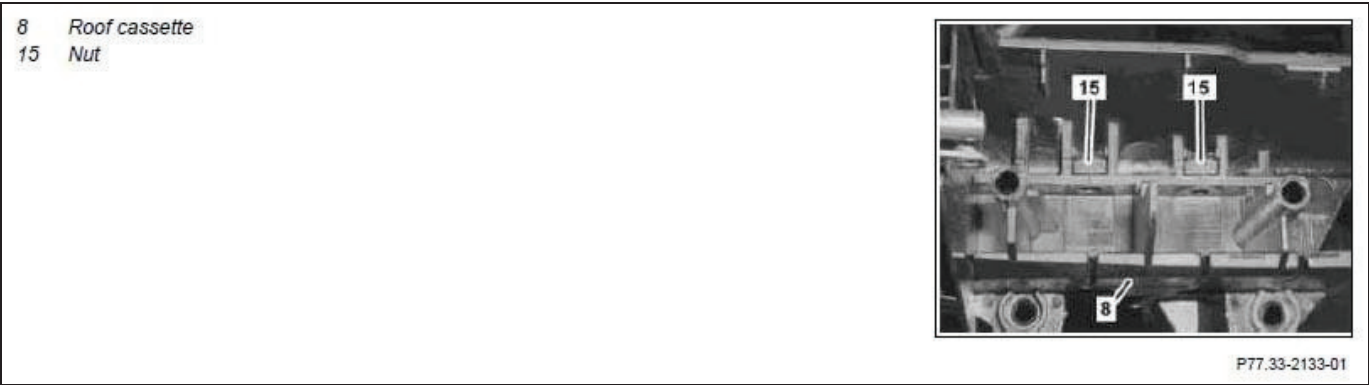
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 4: Identifying Soft Top Roof Cassette Plug Components - Shown On Right Side Of Vehicle (3 Of 4)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 5: Identifying Soft Top Roof Cassette Plug Components - Shown On Right Side Of Vehicle (4 Of 4)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Remove/install	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove soft top drive cable	AR77.30-P-1104MCU

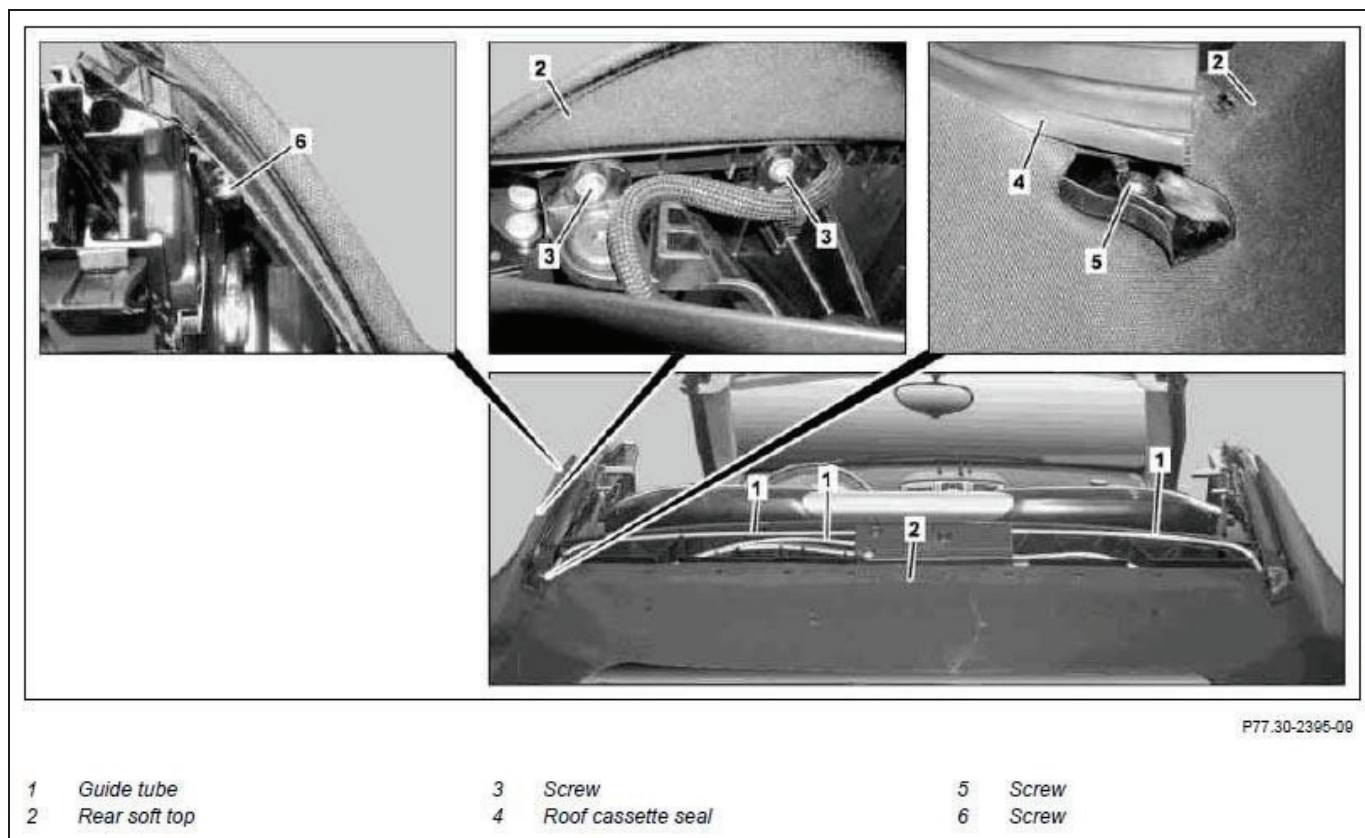
2	Remove roof cassette seals (4).	
3	Unscrew bolts (5) on left and right side of soft top (2).	
4	Unscrew bolts (3, 6)	
5	Unhook rear soft top (2) from roof cassette (8) and fold toward rear.	
6	Unscrew bolts (9, 10)	
7	Remove roof cassette plugs (7) from roof cassette (8) and unscrew bolts (11).	
8	Separate guide tube (1) and roof cassette plugs (7).	
9	Remove retainers (12) from retaining bolts on left roof cassette microswitch (S84/38) and right roof cassette microswitch (S84/40) with suitable tool	ⓘ Do not damage retaining bolts, otherwise it is necessary to replace the electric wiring harness.
10	Lift spring (13) on left roof cassette microswitch (S84/38) out of cutout in roof cassette plug (7) with suitable tool and remove left roof cassette microswitch (S84/38)	ⓘ Do not bend or damage spring (13) on left roof cassette microswitch (S84/38). This can lead to malfunction and damage to the soft top.
11	Lift spring (13) on right roof cassette microswitch (S84/40) out of cutout in roof cassette plug (7) with suitable tool and remove right roof cassette microswitch (S84/40)	ⓘ Do not bend or damage spring (13) on right roof cassette microswitch (S84/40). This can lead to malfunction and damage to the soft top.
12	Unscrew bolts (16) and bolt (19) from roof cassette plug (7) and carrier plate (17).	
13	Unscrew bolt (18) at rear of roof cassette plug (7).	
14	Remove carrier plate (17) from roof cassette plug (7).	ⓘ Do not bend or damage spring (13) on soft top microswitch (S84/37). This can lead to malfunction and damage to the soft top.
15	Open catch hook (14) and remove soft top microswitch (S84/37)	ⓘ Do not damage retaining bolts at rear of soft top microswitch (S84/37), otherwise it is necessary to replace the electric wiring harness.
16	Check position of nuts (15) in roof cassette (8), correct if necessary.	
17	Install in the reverse order	

TESTING & REPAIR > REMOVE/INSTALL GUIDE TUBE FOR DRIVE CABLE - AR77.30-P-1112MCU >

MODEL 451.4

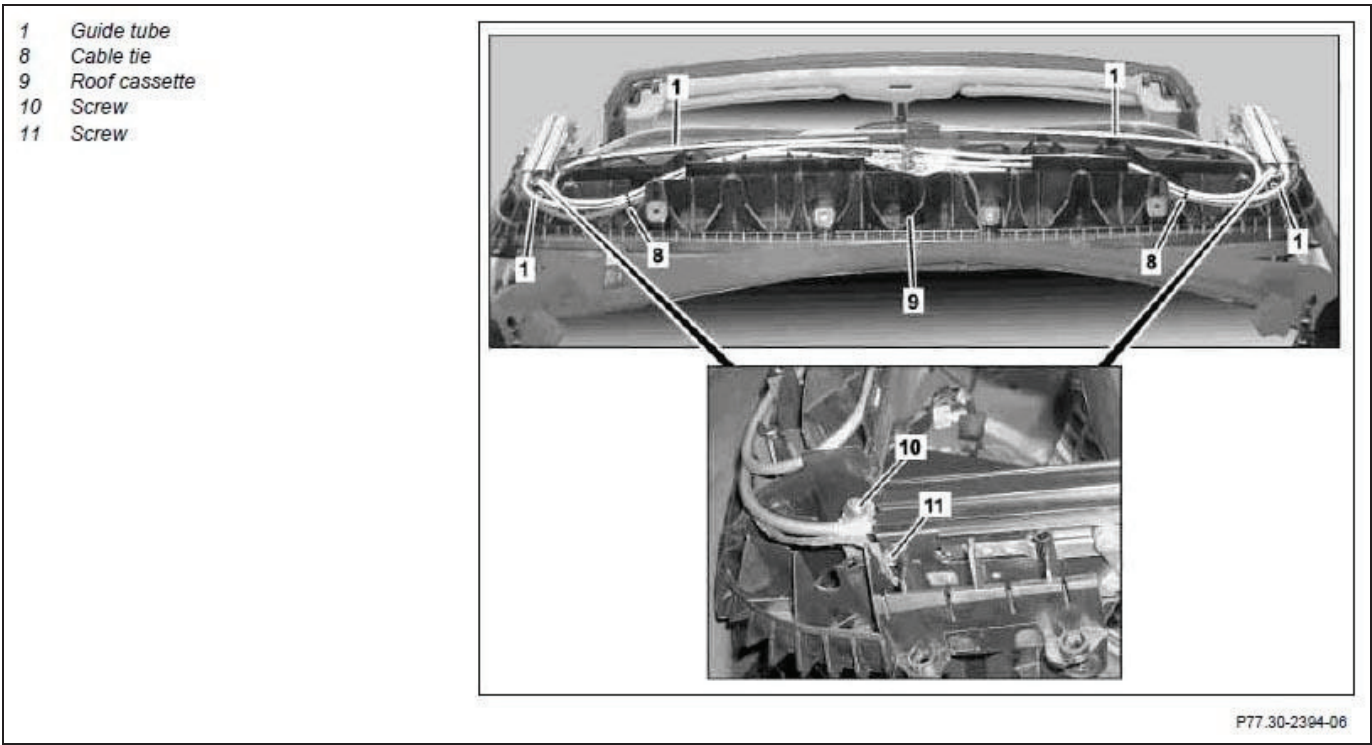
Shown on left side of vehicle

Fig 1: Identifying Guide Tube For Drive Cable Components (1 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Guide Tube For Drive Cable Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

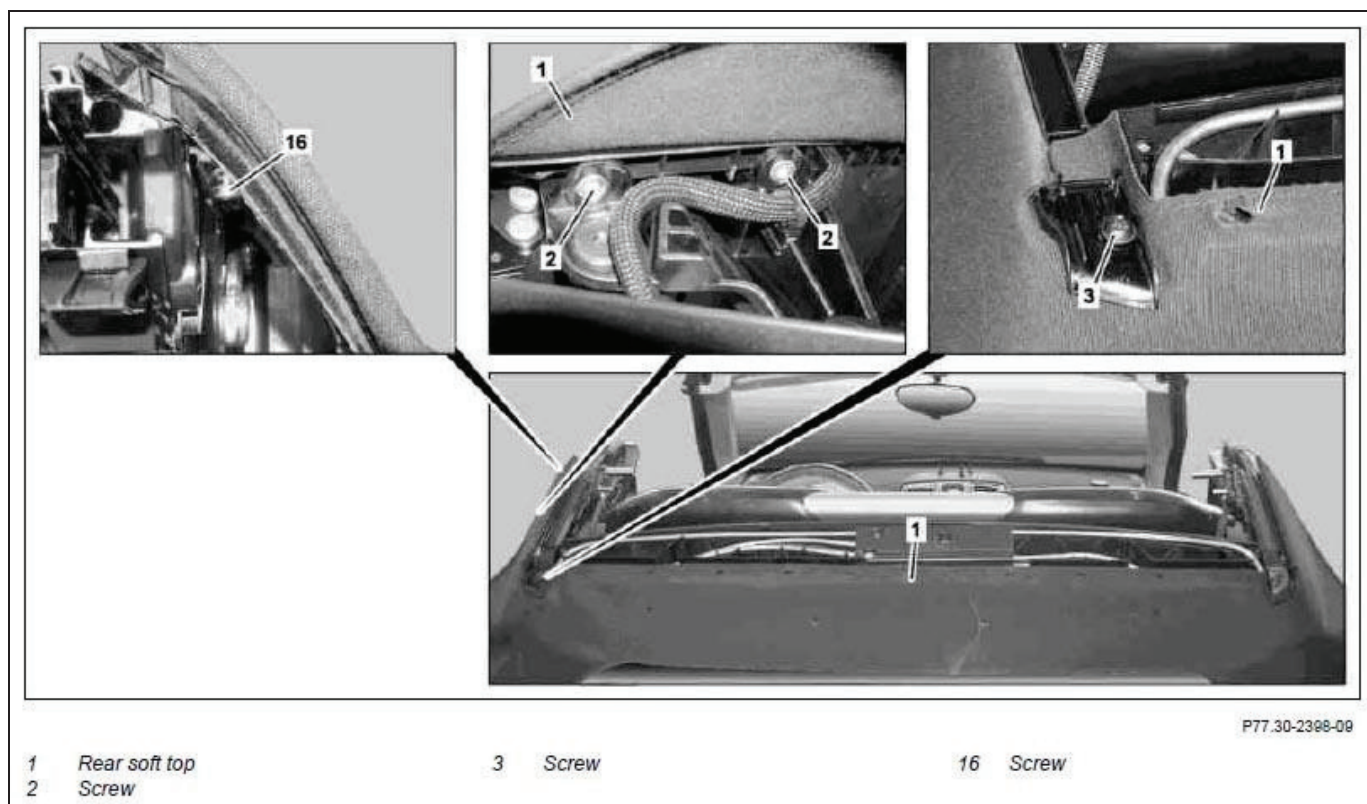
	Removing	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove soft top drive cable	AR77.30-P-1104MCU
2	Remove roof cassette seals (4).	AR77.30-P-1109MCU
3	Remove bolts (5)	
4	Unscrew bolts (3, 6)	
5	Unhook rear soft top (2) from roof cassette (9) and fold toward rear.	
6	Unscrew bolts (10, 11)	
7	Remove cable ties (8)	
8	Remove guide tube (1)	
	Install	
9	Insert guide tube (1) and tighten bolts (10, 11)	Observe assignment of guide tube (1).
10	Provide cable tie (8)	
11	Hook rear soft top (2) into roof cassette (9) on left and right.	
12	Tighten screws (3, 6).	

13	Tighten screws (5)	
14	Install roof cassette seals (4).	AR77.30-P-1109MCU
15	Install soft top drive cable	AR77.30-P-1104MCU
16	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL REAR SOFT TOP - AR77.30-P-1150MCU >

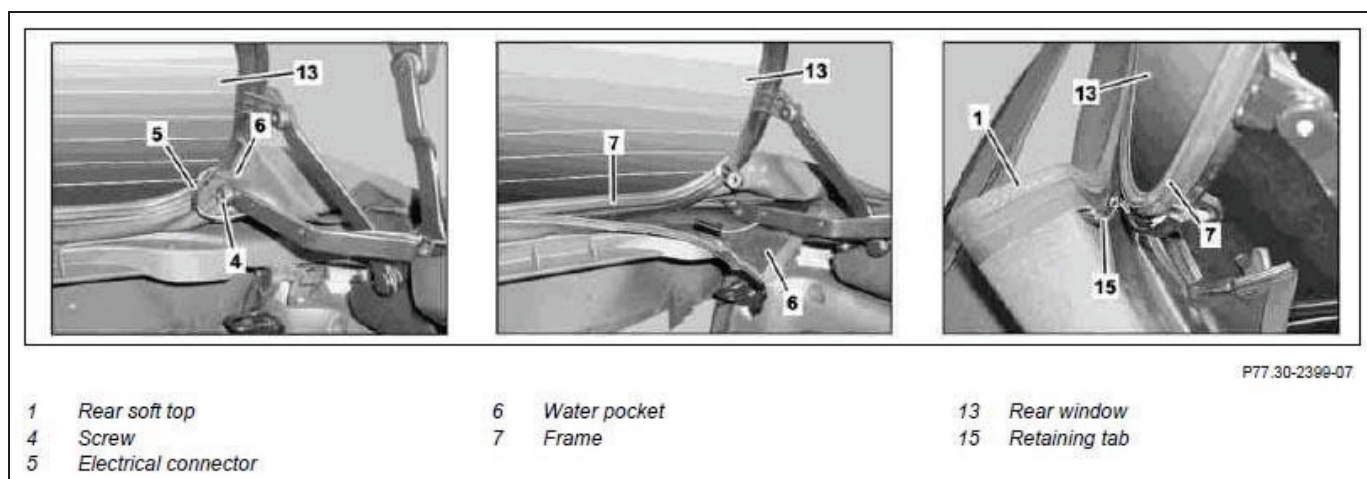
MODEL 451.4

Fig 1: Identifying Rear Soft Top Components (1 Of 4)



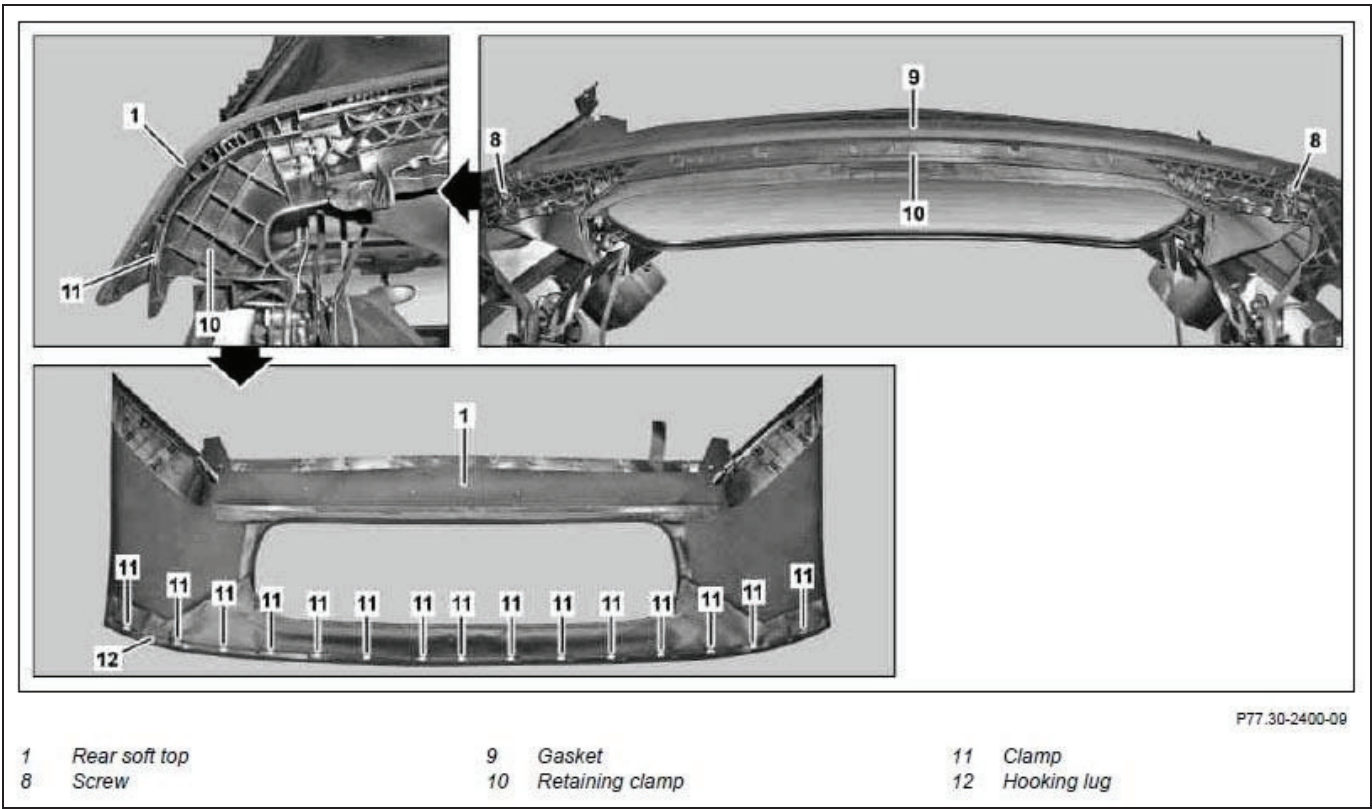
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Rear Soft Top Components (2 Of 4)



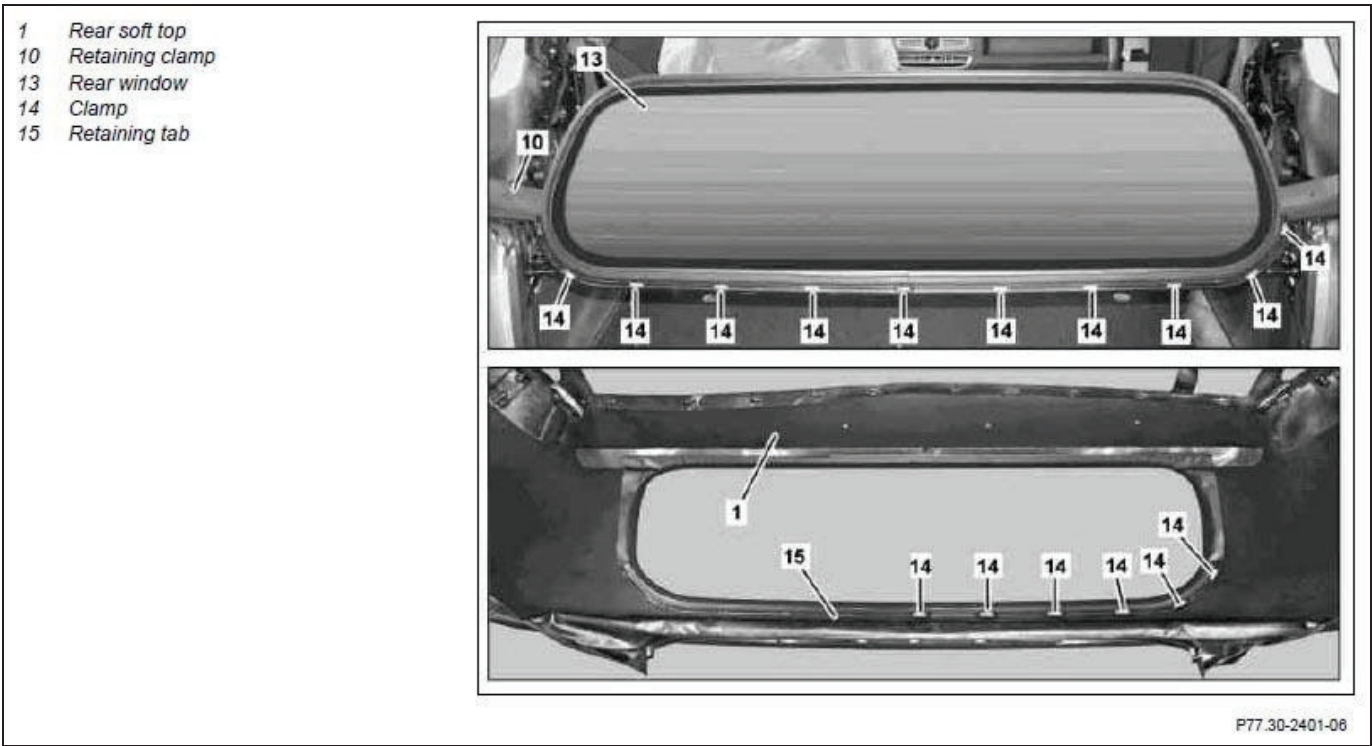
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 3: Identifying Rear Soft Top Components (3 Of 4)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 4: Identifying Rear Soft Top Components (4 Of 4)



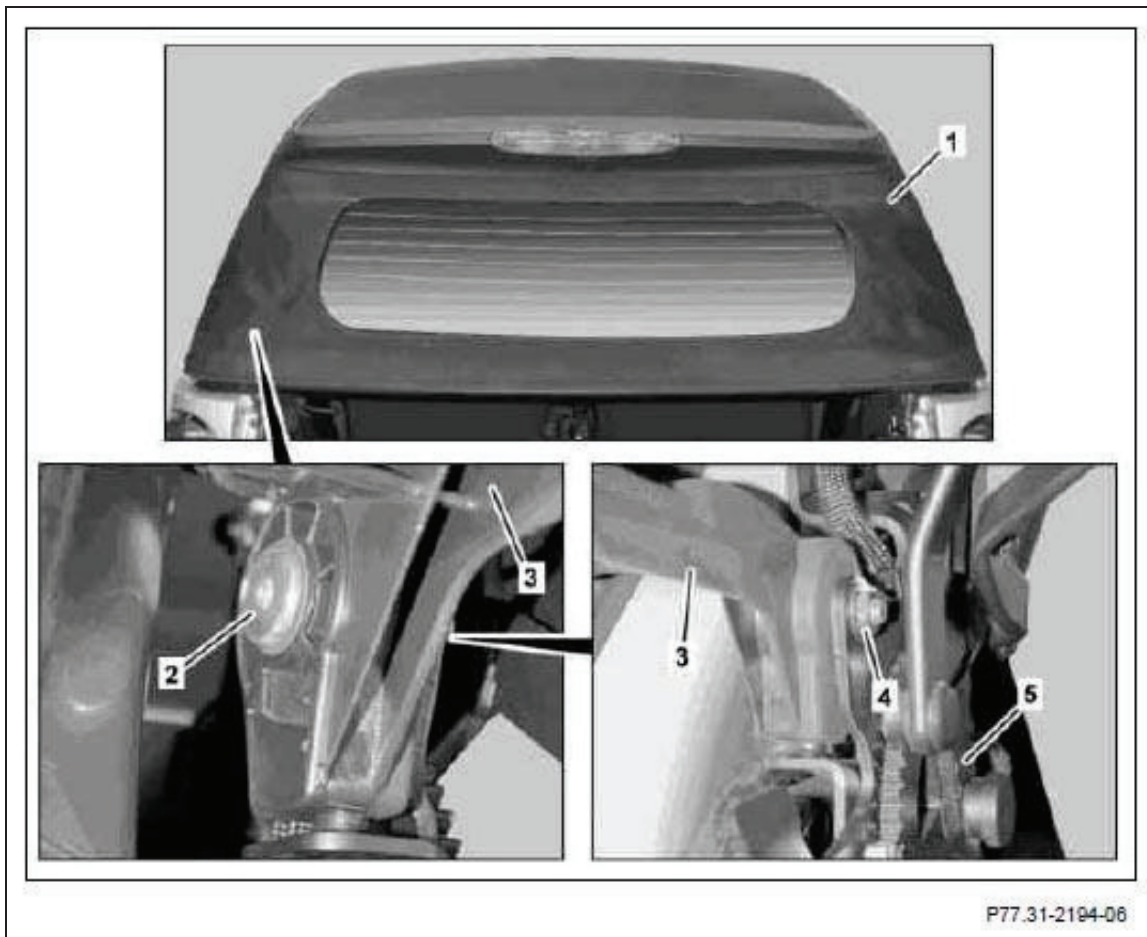
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove roof cassette seals	AR77.30-P-1109MCU
2	Remove bolts (3)	
3	Unscrew bolts (2, 16)	
4	Unhook rear soft top (1) from roof cassette on left and right and fold toward rear, guide electrical lines through	
5	Unscrew bolts (4)	
6	Disconnect electrical connectors (5)	
7	Pull retaining tab of water pocket (6) out of frame (7) on rear window (13).	
8	Pull retaining tab (15) of rear soft top (1) out of frame (7) on rear window (13).	
9	Fold up retaining clip (10), unscrew bolts (8) and pull seal (9) out of retaining clip (10).	
10	Unhook rear soft top (1) from retaining clip (10) from outside toward inside and remove.	
11	Remove clips (11) remaining in retaining clip (10) using suitable tool.	i Installation: Install clips (11) on hooking lug (12) on rear soft top (1).
12	Fold down rear window (13) and retaining clip (10).	
13	Remove clips (14) remaining in rear window (13) of frame (7) with suitable tool.	i Installation: Install clips (14) on retaining tab (15) on rear soft top (1).
14	Install in the reverse order	
15	Close rear soft top (1) and check for creases; if applicable, adjust retaining clip (10) of rear soft top (1).	AR77.30-P-1151-01MCO
16	Perform a function test	

TESTING & REPAIR > ADJUST REAR SOFT TOP RETAINING CLIP - AR77.30-P-1151-01MCO >

1. Open rear soft top (1).
2. Loosen bolts (2), nuts (4) and retaining clip (3) on main bearing (5).
3. Close rear soft top (1).

Fig 1: Identifying Rear Soft Top, Bolts, Nuts And Retaining Clip On Main Bearing

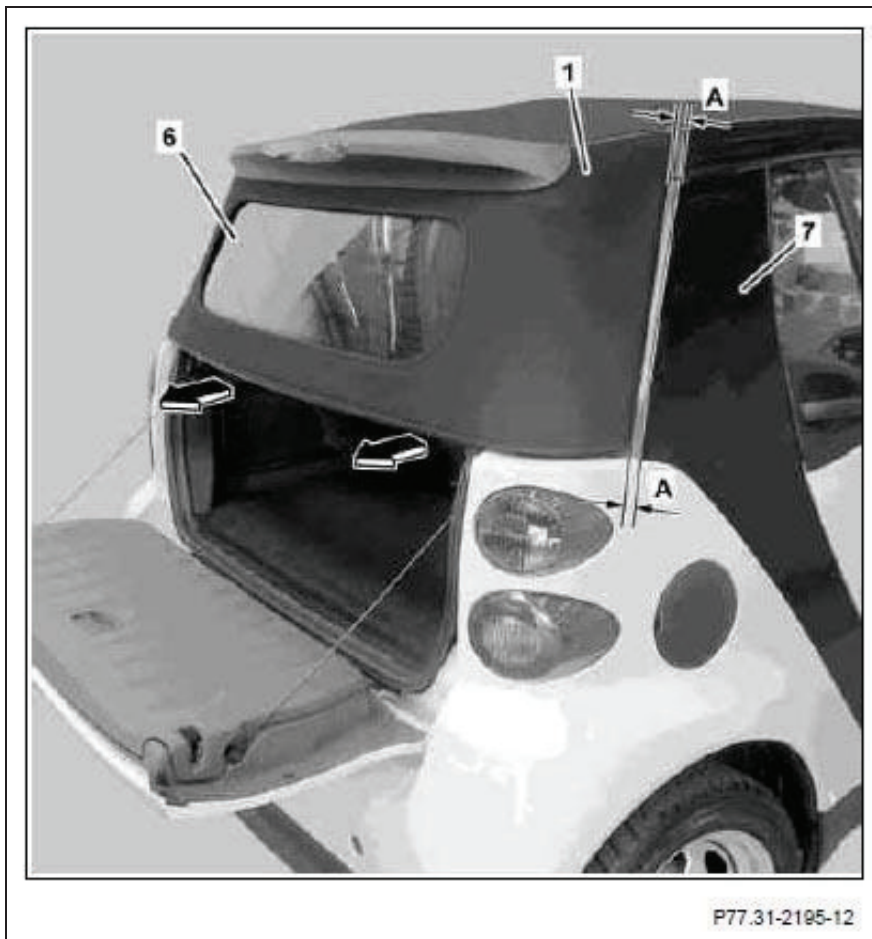


Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

4. Pull rear soft top (1) on retaining clip toward rear (arrows).
5. Check gap between rear soft top (1) and B-pillar (7).

i The distance (A) should be the same at top and bottom, the covering of the rear soft top (1) should make contact with the seal on the rear window (6).

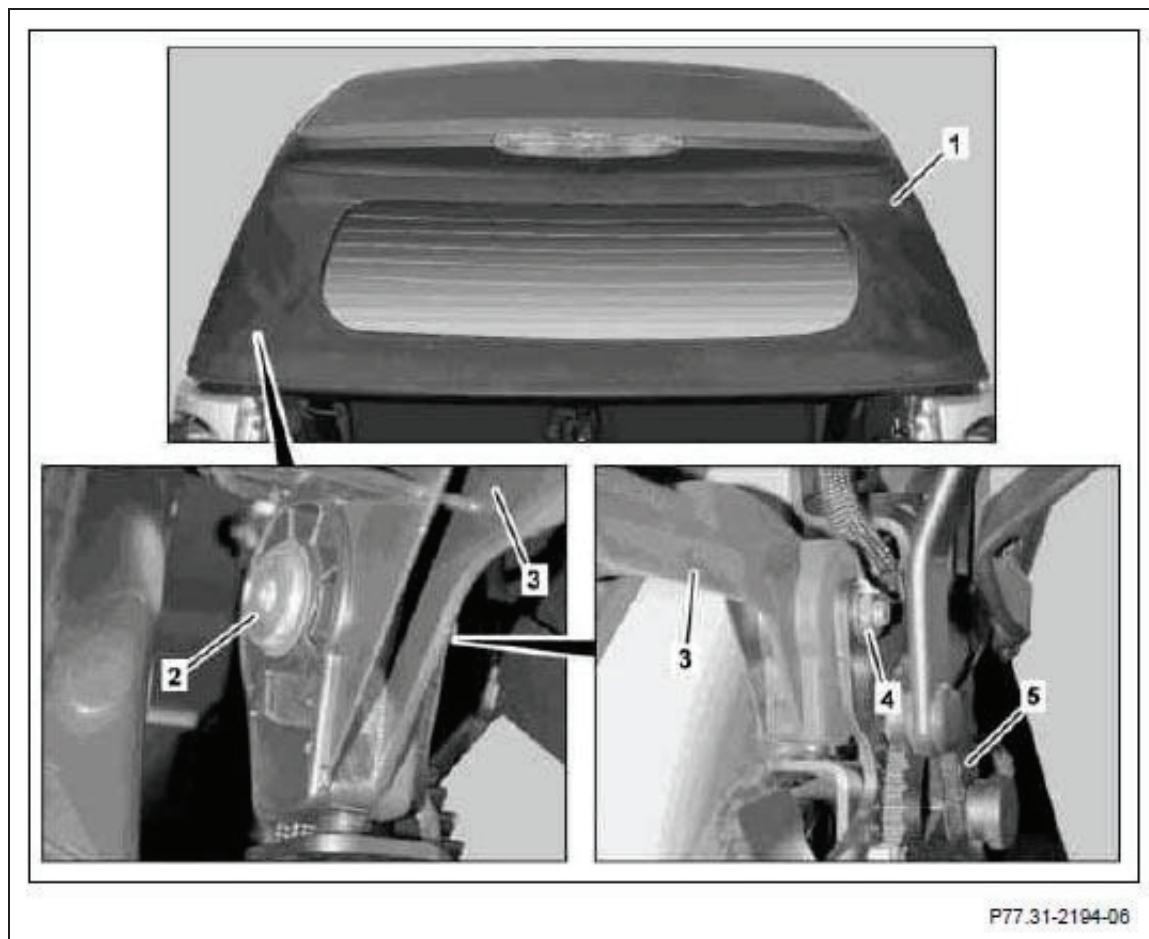
Fig 2: Pulling Rear Soft Top



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

6. When rear soft top (1) is closed, tighten bolt (2) and nuts (4) on main bearing (5).
 7. Open and close rear soft top (1).
- i** The retaining clip (3) should close easily, the covering of the rear soft top (1) should be seated tautly and without creases.

Fig 3: Identifying Rear Soft Top, Bolts, Nuts And Retaining Clip On Main Bearing

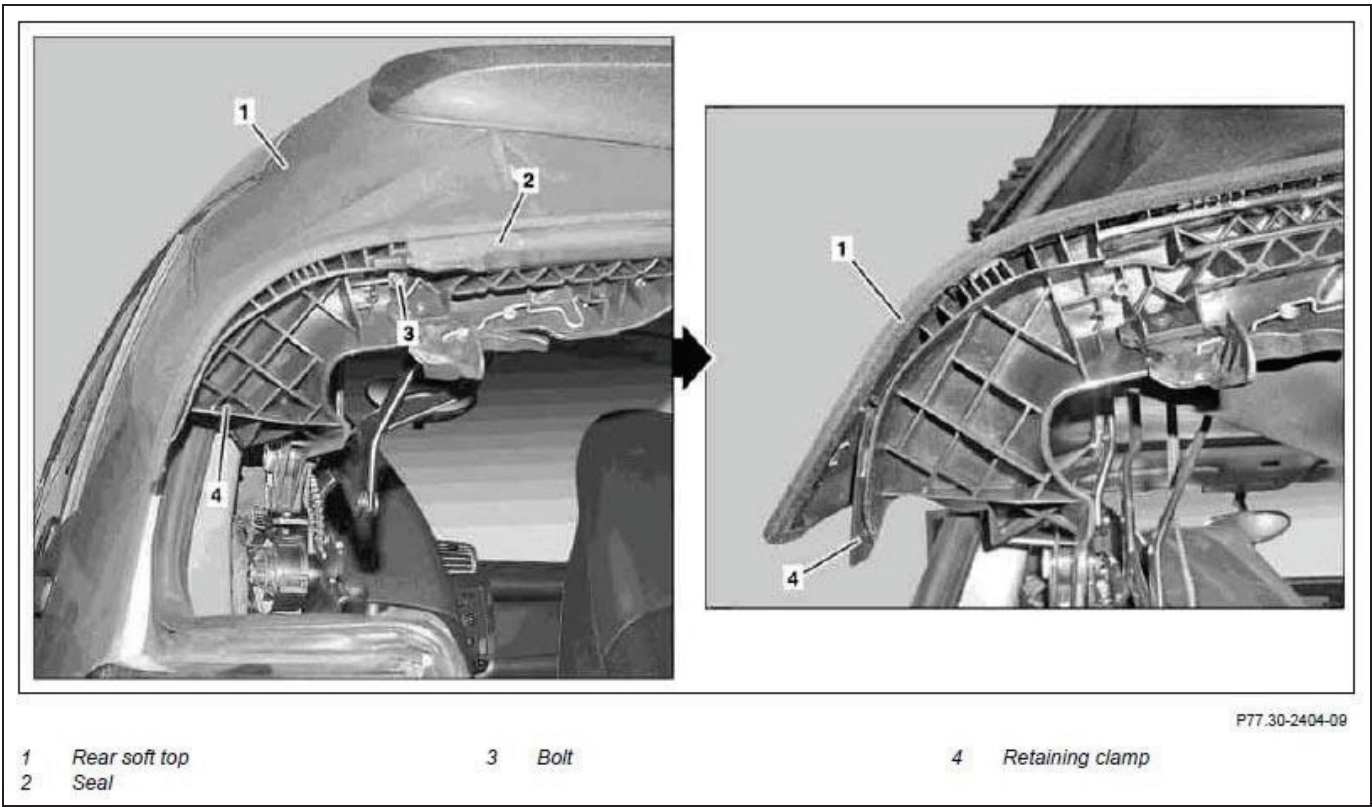


Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

TESTING & REPAIR > REMOVE/INSTALL REAR SOFT TOP RETAINING CLIP - AR77.30-P-1151MCO >

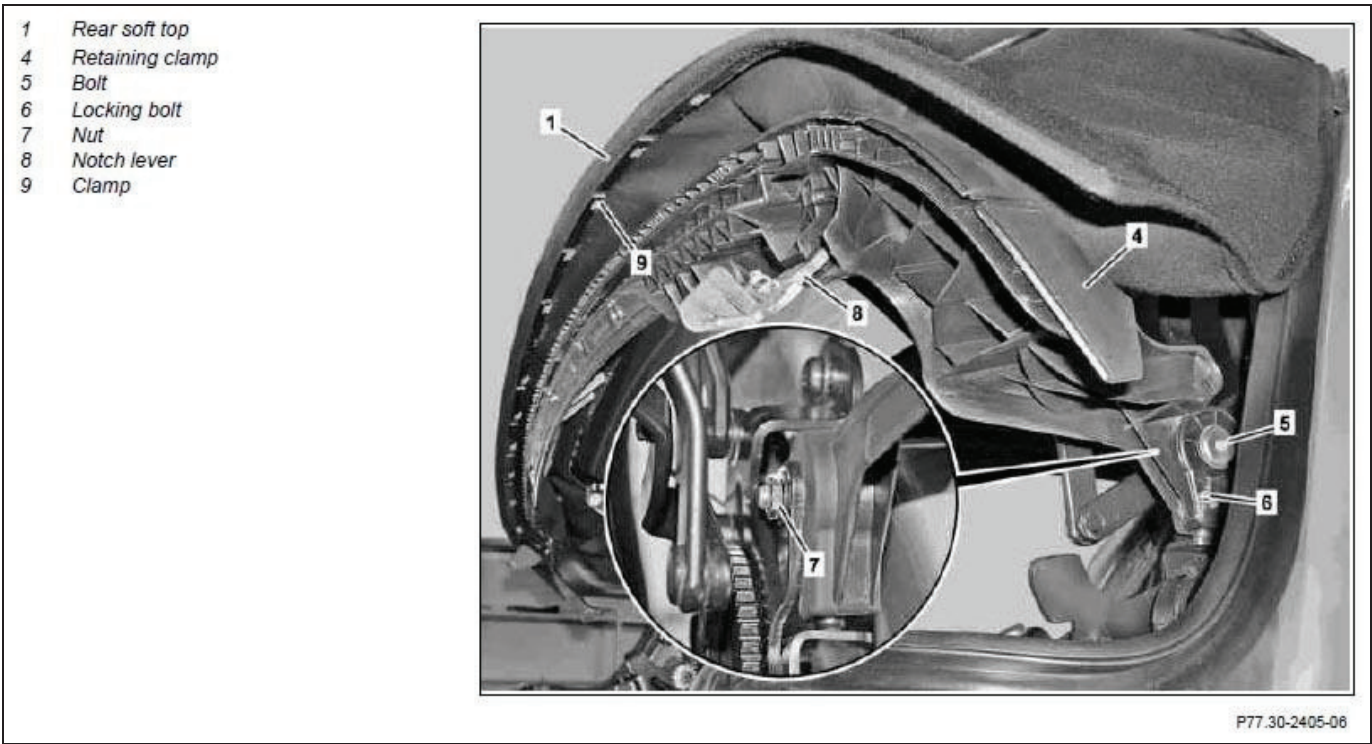
MODEL 451.4

Fig 1: Identifying Rear Soft Top Retaining Clip Components (1 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Rear Soft Top Retaining Clip Components (2 Of 2)



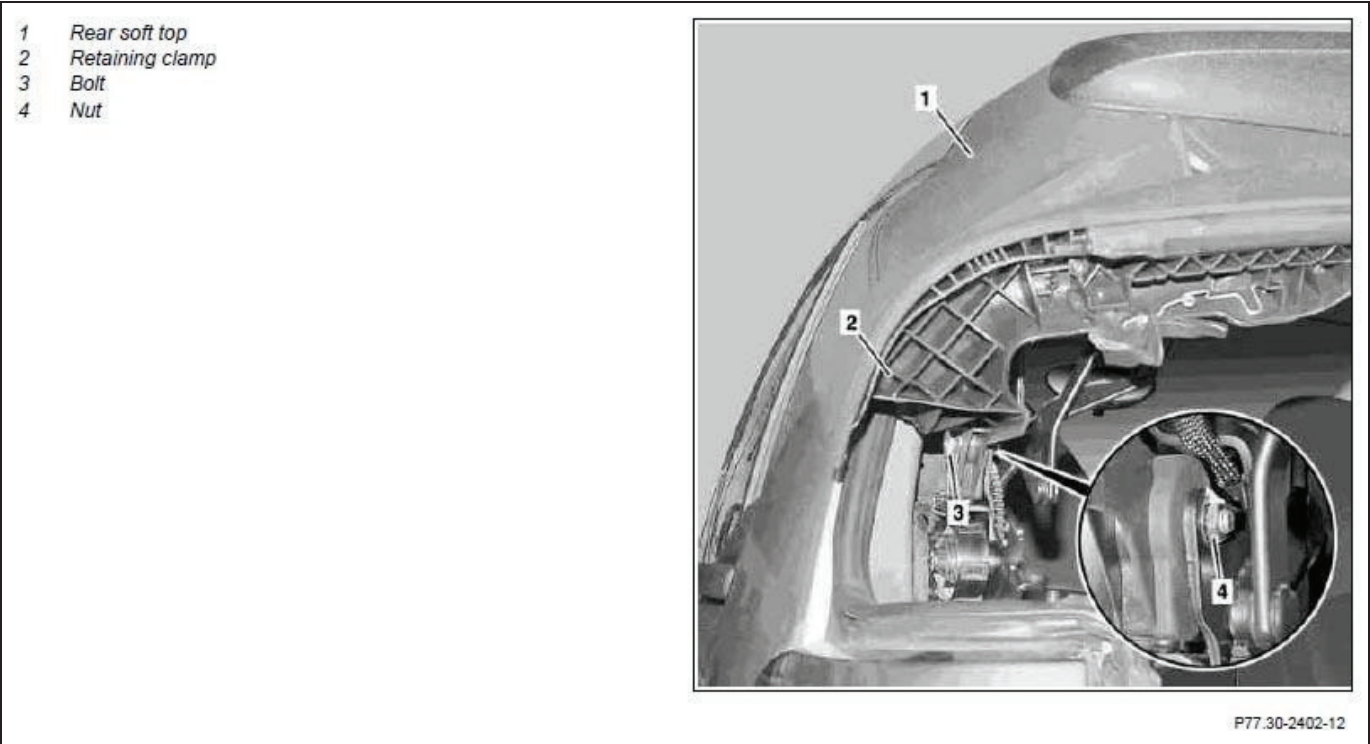
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Notes for soft tops	AH77.30-P-0001-01MCO
1	Remove panelings from rear pillar.	AR68.30-P-4505MCO
2	Fold up retaining clip (4), unscrew bolts (3) and pull seal (2) out of retaining clip (4).	
3	Unhook rear soft top (1) from retaining clip (4), from outside toward inside.	
4	Remove clips (9) remaining in retaining clip (4) using suitable tool.	<div data-bbox="786 470 818 512">i</div> Installation: Insert clips (9) into hooking lug on rear soft top (1).
5	Unscrew bolts (5) and remove retaining clip (4).	
6	Remove notch lever (8).	When replacing retaining clip (4).
7	Remove arresting bolt (6).	When replacing retaining clip (4). AR77.30-P-1152MCO
8	Install in the reverse order	
9	Adjust retaining clip (4) on rear soft top (1).	AR77.30-P-1151-01MCO
10	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL ARRESTING BOLT ON REAR SOFT TOP RETAINING CLIP - AR77.30-P-1152MCO >

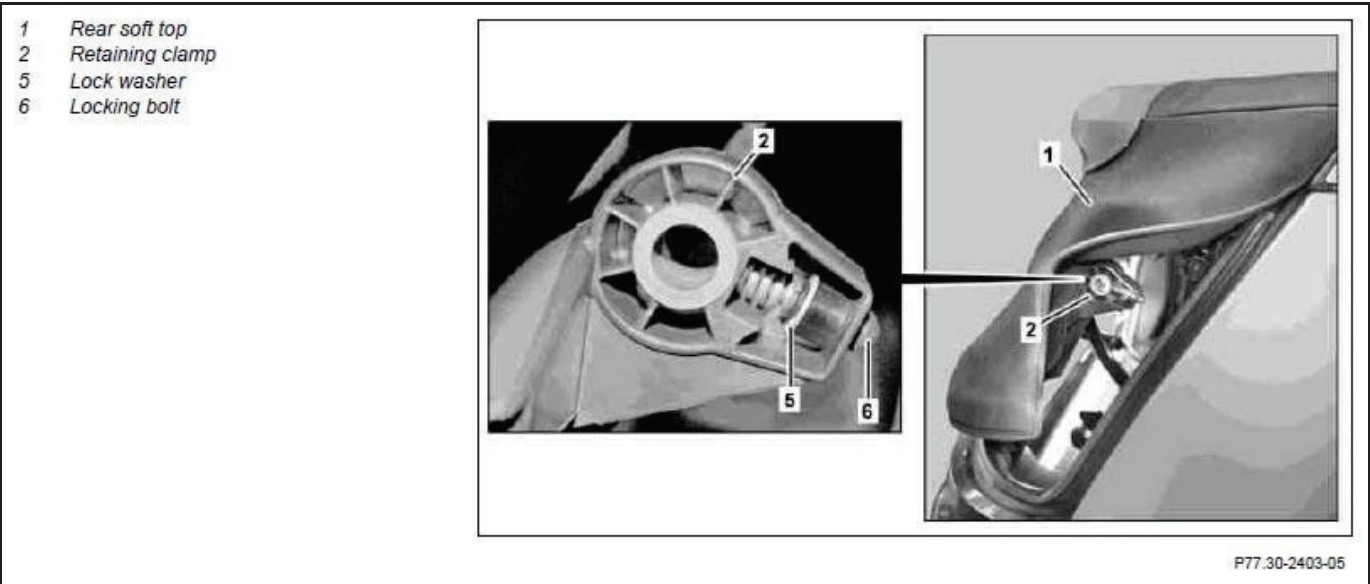
MODEL 451.4

Fig 1: Identifying Rear Soft Top, Retaining Clamp, Bolt And Nut



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Rear Soft Top, Retaining Clamp, Lock Washer And Locking Bolt



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

<div><div><div></div><div></div></div><div></div></div>	Remove/install	
<div><div><div></div><div></div></div><div></div></div>	Notes for soft tops	AH77.30-P-0001-01MCO
1	Remove paneling from rear pillar.	AR68.30-P-4505MCO
2	Remove bolts (3)	

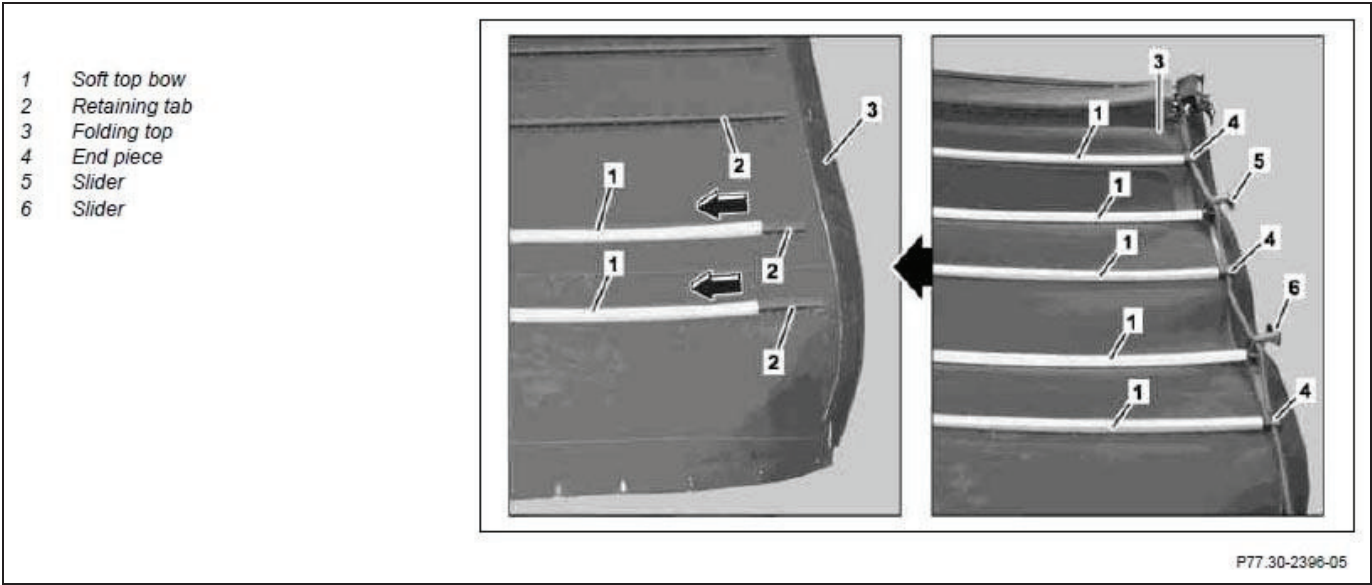
3	Fold retaining clip (2) upward, remove lock washer (5) and pull out arresting bolt (6).	<div><div>i</div>Aid of helper required.</div>
4	Install in the reverse order	
5	Adjust retaining clip (2) on rear soft top (1).	AR77.30-P-1151-01MCO
6	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL SOFT TOP BOW ON SOFT TOP - AR77.30-P-1200MCU >

MODEL 451.4

Shown on left side of vehicle

Fig 1: Identifying Soft Top Bow On Soft Top Components



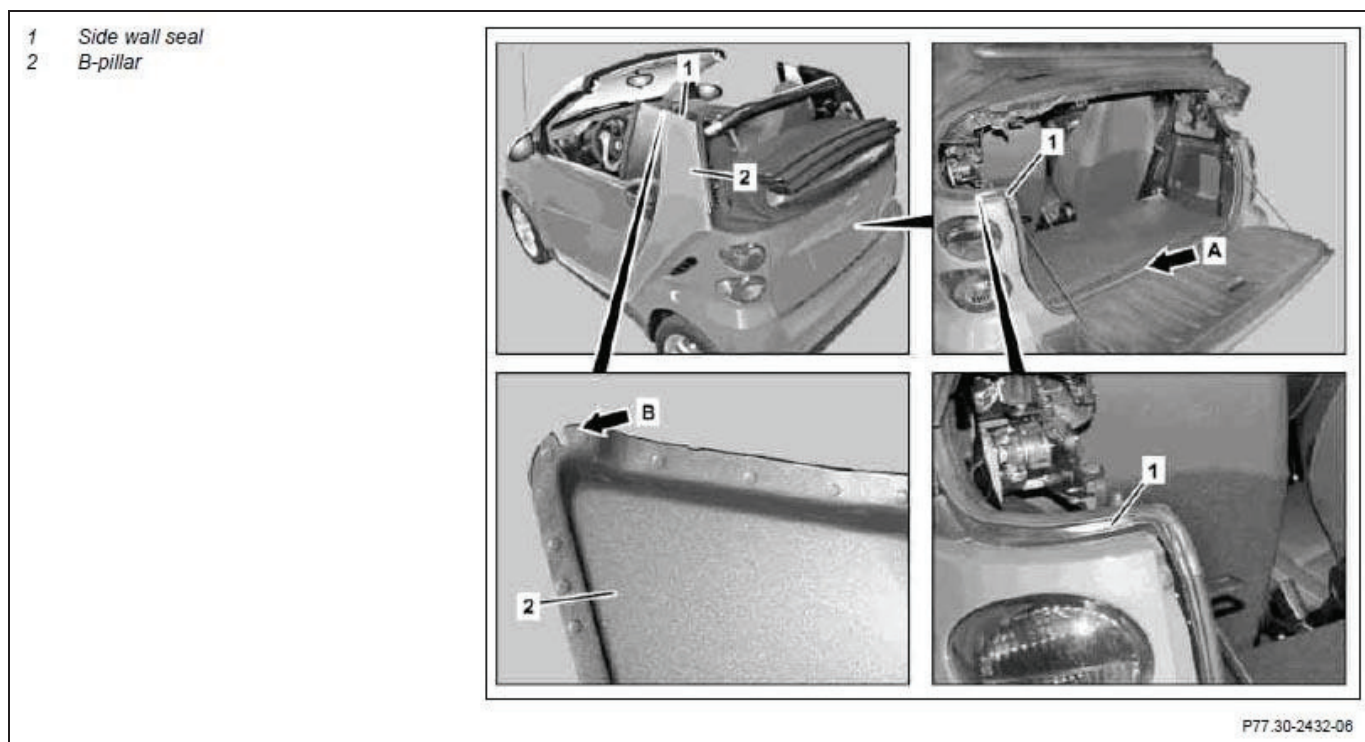
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

<div><div>✕✕</div></div>	Remove/install	
<div><div>i</div></div>	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove sliding rail (5, 6) and end pieces (4).	AR77.33-P-2000MCU
2	Slide soft top bow (1) out of retaining tabs (2) on soft top (3).	<div><div>i</div>The soft top bows (1) are equal.</div>
3	Install in the reverse order	

TESTING & REPAIR > REMOVE/INSTALL SIDE WALL SEAL - AR77.30-P-3350MCC >

MODEL 451.4

Fig 1: Identifying Side Wall Seal And B-Pillar

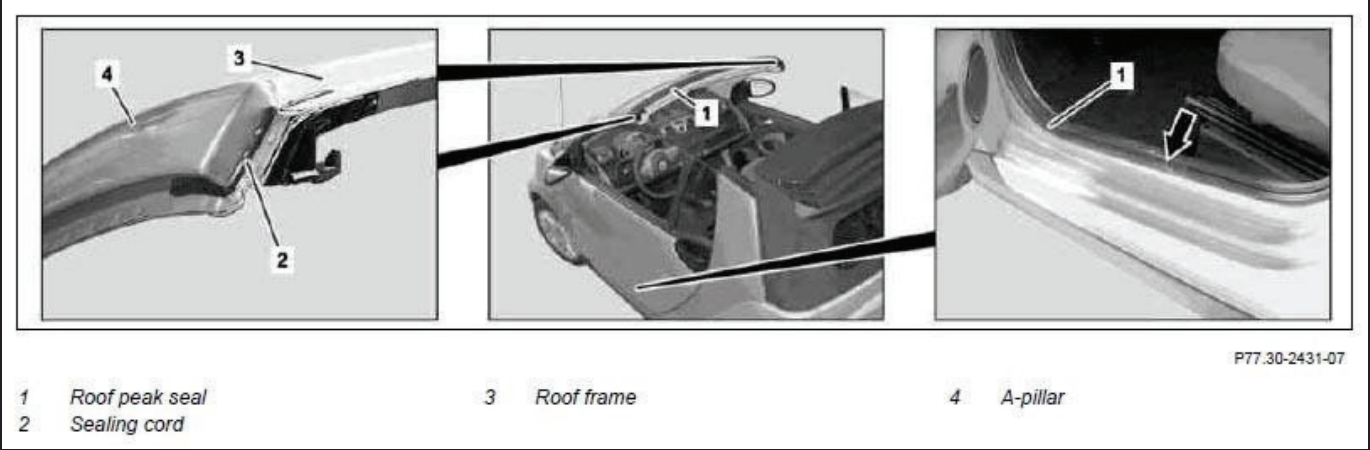


Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

✕	Removing	
i	Notes on soft tops	AH77.30-P-0001-01MCO
1	Open soft top and rear soft top	i Open soft top and rear soft top until side wall seal (1) is exposed.
2	Remove side supports.	
3	Remove side wall seal (1) starting at marked area (arrow A).	
✕	Install	
4	First insert guide of side wall seal (1) into cutout (arrow B) on B-pillar (2), then press side wall seal (1) manually onto body flange and drive down with plastic mallet, if necessary	i Insert side wall seal (1) as close as possible in the radii, otherwise leakage can occur. The right and left side wall seal (1) should make contact at the center of the rear end panel without gap (arrow A). The lip of the side wall seal (1) must contact the body without any contortions.
5	Install side supports	
6	Close folding top and rear soft top	

MODEL 451.4


Fig 1: Identifying Roof Peak Seal Components



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Removing	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Open soft top	
2	Remove side supports.	
3	Remove front roof frame paneling	AR68.30-P-4450MCV
4	Remove roof peak seal (1) starting at marked area (arrow)	
5	Remove sealing profile (2)	
	Install	
6	Position sealing profile (2) on both sides on roof frame (3) and A-pillar (4)	*BR00.45-Z-1021-01A
7	Press roof peak seal (1) on A-pillar (4) onto body flange starting at top left and top right and drive down with plastic mallet, if necessary	Mount roof peak seal (1) as close as possible in the radii as otherwise leaks may occur. The roof peak seal (1) and side wall seal at the left or right must make contact in the center of the door sill without gap (arrow).
8	Check seating of roof peak seal (1)	The sealing lip of the roof peak seal (1) must

contact the body without any contortions.

9	Install side supports	
10	Check installation position of roof peak seal (1)	 The A-pillar (4) must line up flush with the side support molded part.
11	Install front roof frame paneling	AR68.30-P-4450MCV
12	Close soft top	

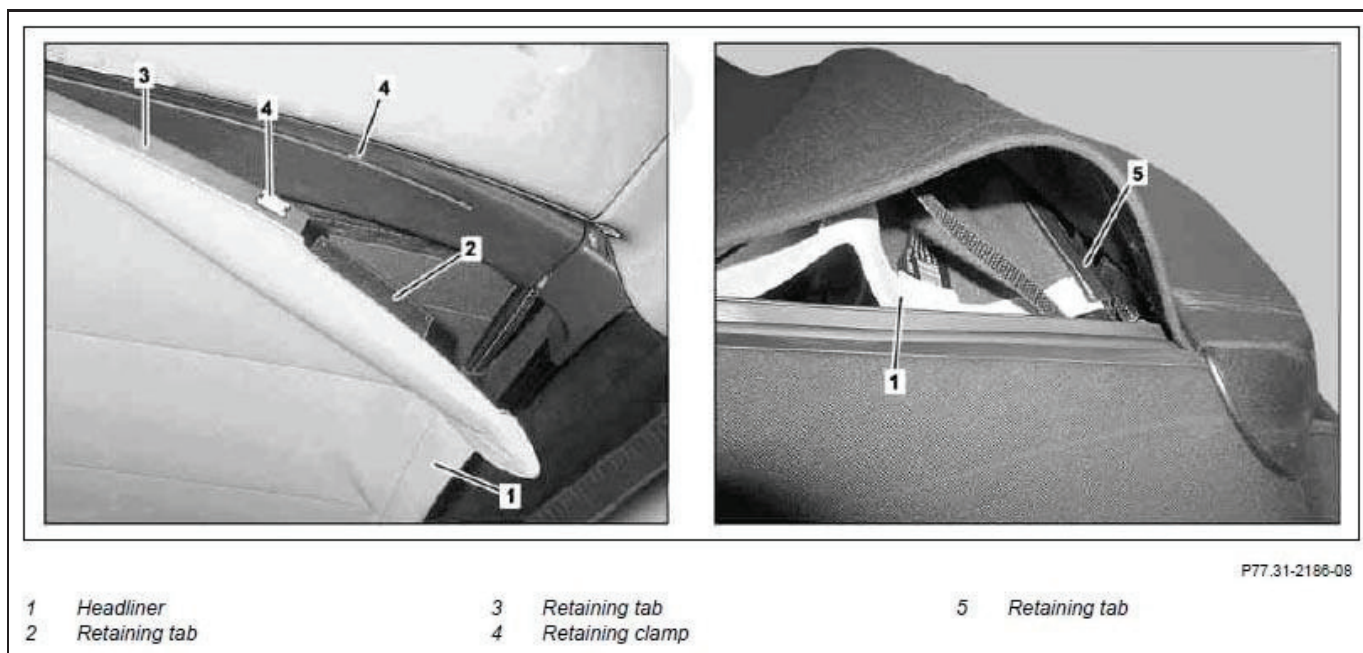
REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1021-01A	Sealing profile Terostat 2710-6	A 001 987 73 46

TESTING & REPAIR > REMOVE/INSTALL HEADLINER - AR77.31-P-1005MCO >

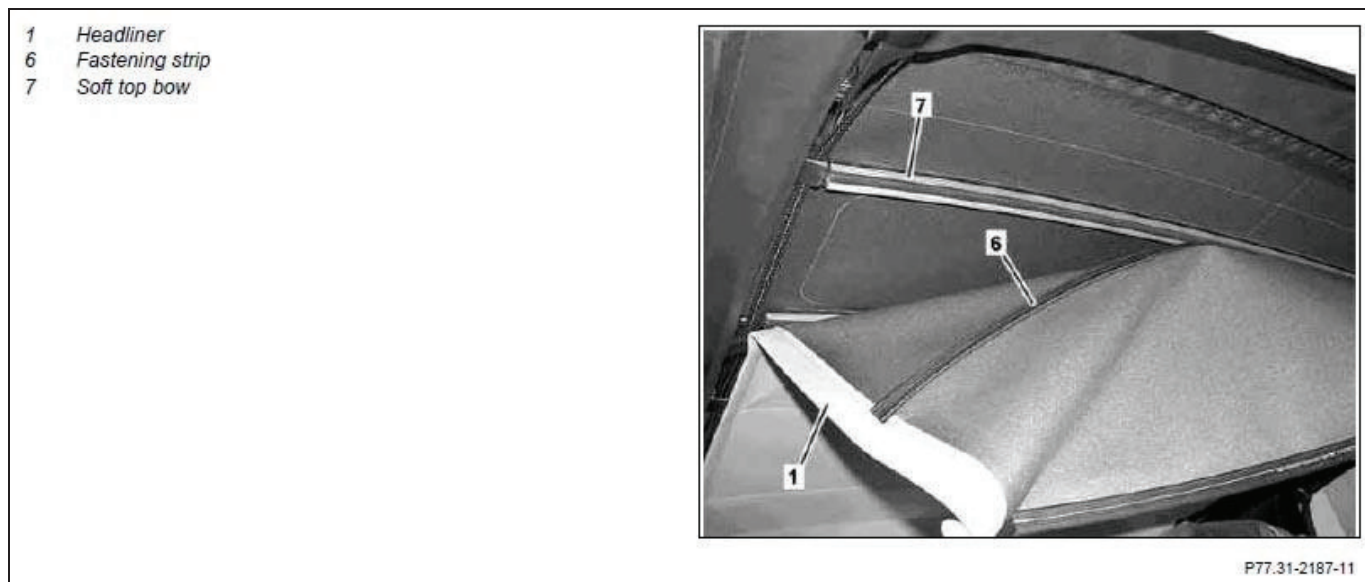
MODEL 451.4

Fig 1: Identifying Headliner Components (1 Of 2)







Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Headliner Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Removing
i	Notes for soft tops AH77.30-P-0001-01MCO
1	<div style="display: flex;"> <div style="flex: 1;"> <p>Open soft top so that retaining tabs (2, 3, 5) on headliner (1) can be removed from roof edge and roof cassette without tension.</p> </div> <div style="flex: 1;"> <p>ⓘ When removing retaining tabs (2, 3, 5) on headliner (1), open soft top slightly, otherwise headliner (1) can be damaged by overstretching.</p> </div> </div>
2	<div style="display: flex;"> <div style="flex: 1;"> <p>Loosen retaining tabs (2) on roof edge and pull out of gap on roof edge.</p> </div> <div style="flex: 1;"> <p>i Use plastic wedge when loosening retaining tabs (2).</p> </div> </div>
3	<div style="display: flex;"> <div style="flex: 1;"> <p>Loosen retaining tabs (3) on left and right front roof edge, then pull headliner (1) out of gap of roof edge, from outside toward center</p> </div> <div style="flex: 1;"> <p>i Use plastic wedge when loosening retaining tabs (3).</p> </div> </div>
4	<div style="display: flex;"> <div style="flex: 1;"> <p>Loosen retaining tab (5) on left and right roof cassette, then pull headliner (1) out of gap of roof cassette, from outside toward center.</p> </div> <div style="flex: 1;"> <p>i Use plastic wedge when loosening retaining tab (5).</p> </div> </div>
5	Close soft top
6	<div style="display: flex;"> <div style="flex: 1;"> <p>Remove mounting strips (6) from soft top bows (7).</p> </div> <div style="flex: 1;"> <p>i Loosen mounting strips (6) on left and right, then pull headliner (1) out of gap of soft top bow (7), from outside toward center.</p> </div> </div>

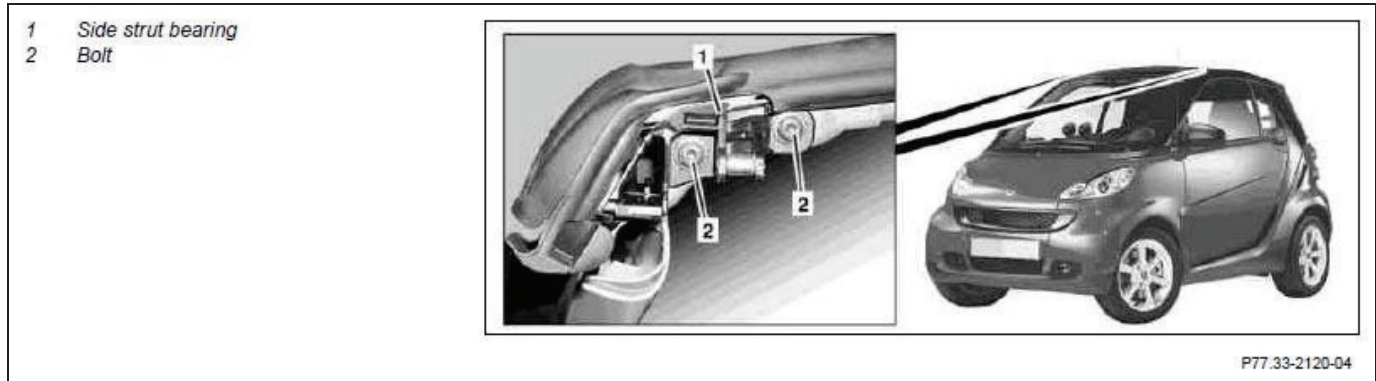
7	Remove remaining retaining clamps (4) from gap on roof edge and gap on roof cassette.	
	Install	
8	Attach retaining clamps (4) on retaining tabs (2, 3, 5).	
9	Open soft top so that retaining tab (5) on headliner (1) can be installed on roof cassette.	
10	Insert retaining tab (5) on headliner (1) at center into gap on roof cassette and press in with uniform pressure from left and right, starting at center.	
11	Close soft top	
12	Insert mounting strips (6) into soft top bows (7) starting at rear and press in from left and right, starting at center, with uniform pressure.	 Aid of helper required. Counterhold soft top from outside.
13	Position mounting strips (6) on headliner (1) in center of roof bows (7).	 Prevent formation of creases.
14	Turn front edge of headliner (1) 90° upward, insert retaining tab (3) in center into gap of roof edge and press in with uniform pressure toward left and right, starting at center.	
15	Insert retaining tabs (2) into gap on roof edge and press in with uniform pressure.	
16	Check headliner (1).	 Check headliner (1) for formation of creases and position mounting strips (6) in center, if necessary. Open soft top, check headliner (1) for tension and position mounting strips (6) in center, if necessary. Close soft top and observe chafing spots of

headliner (1) on soft top seal;
center mounting strips (6), if
necessary.

TESTING & REPAIR > REMOVE/INSTALL SIDE SUPPORT BEARING - AR77.33-P-1008MCO >

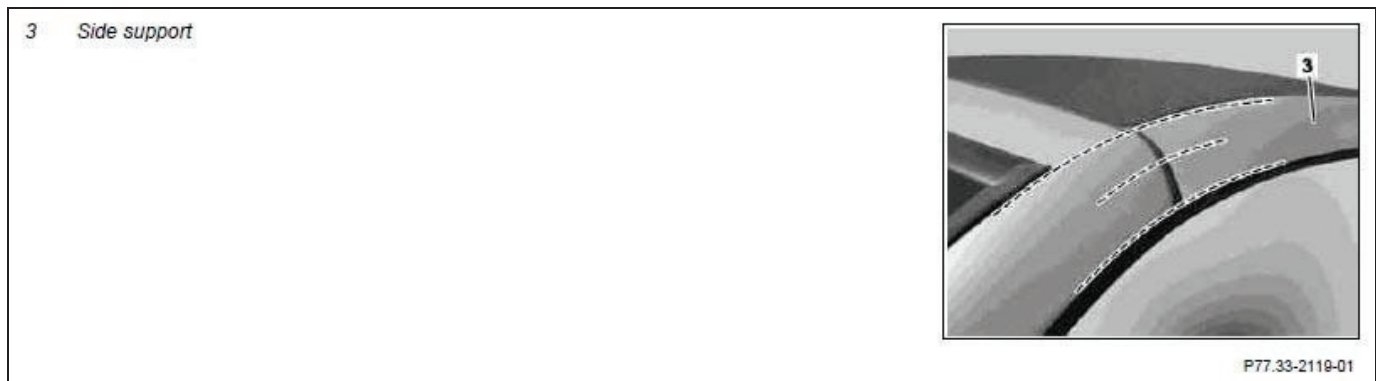
MODEL 451.4

Fig 1: Identifying Side Strut Bearing And Bolt








Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Side Support



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

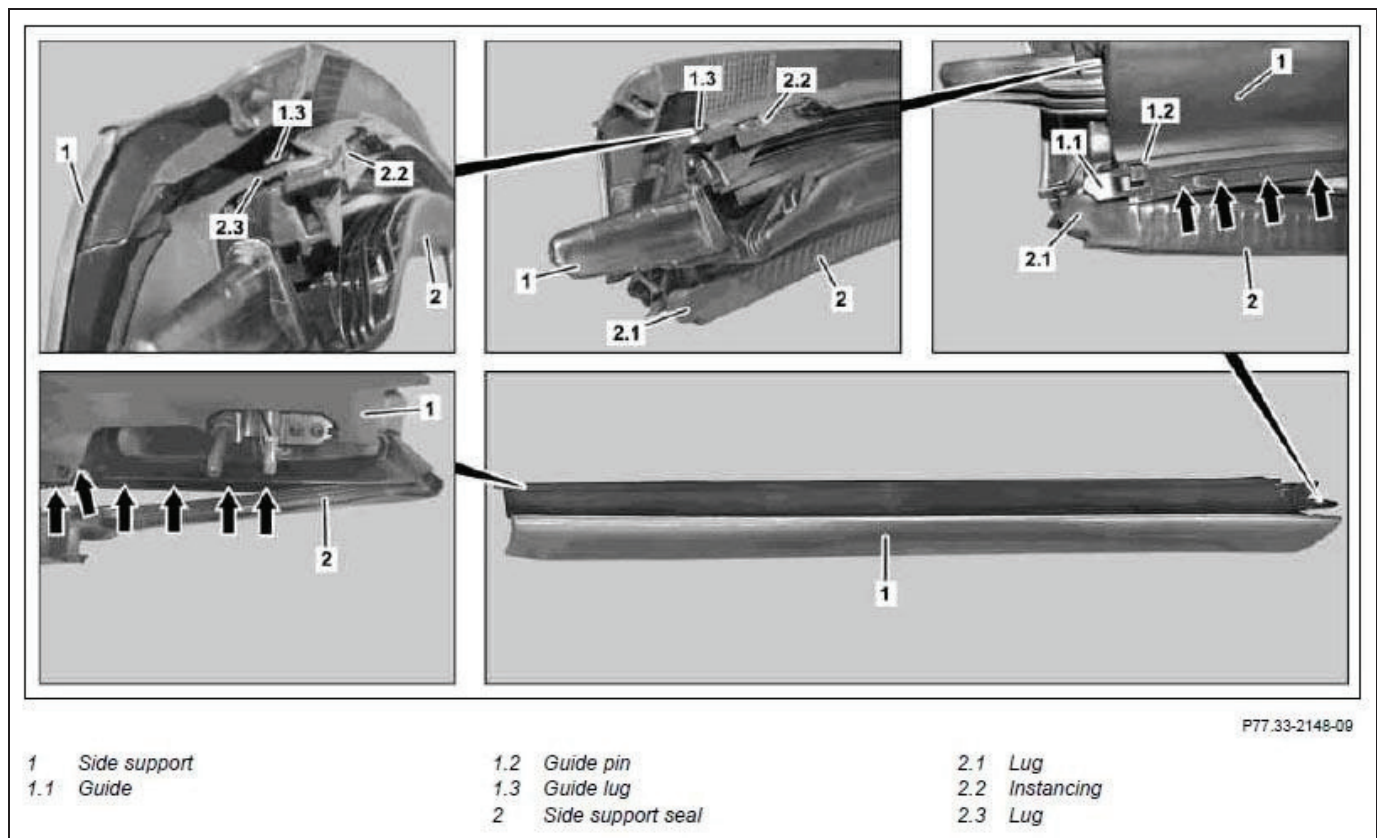
	Removing	
	Notes for soft tops	AH77.30-P-0001-01MCO
1	Completely open soft top	
2	Remove left and right side support (3).	
3	Mark position of side support bearing (1) with pen.	
4	Remove front roof frame paneling	AR68.30-P-4450MCO

5	Unscrew bolts (2) and remove side support bearing (1).	 Turn side support bearing (1) 90° to remove it from A-pillar.
	Install	
6	Insert side support bearing (1) into A-pillar according to marking and tighten bolts (2).	
7	Install left and right side support (3) and check course of body contours.	 There should not be any offset in the course of the body contour. If an offset should be present, remove left or right side support (3), loosen bolts (2) and readjust position of side support bearing (1), tighten bolts (2). Check course of body contour again.
8	Remove left and right side support (3).	
9	Remove markings.	
10	Install front roof frame paneling	AR68.30-P-4450MCO
11	Install left and right side support (3).	
12	Check soft top for proper function, close soft top.	

TESTING & REPAIR > REMOVE, INSTAL SIDE SUPPORT SEAL - AR77.33-P-1010MCO >

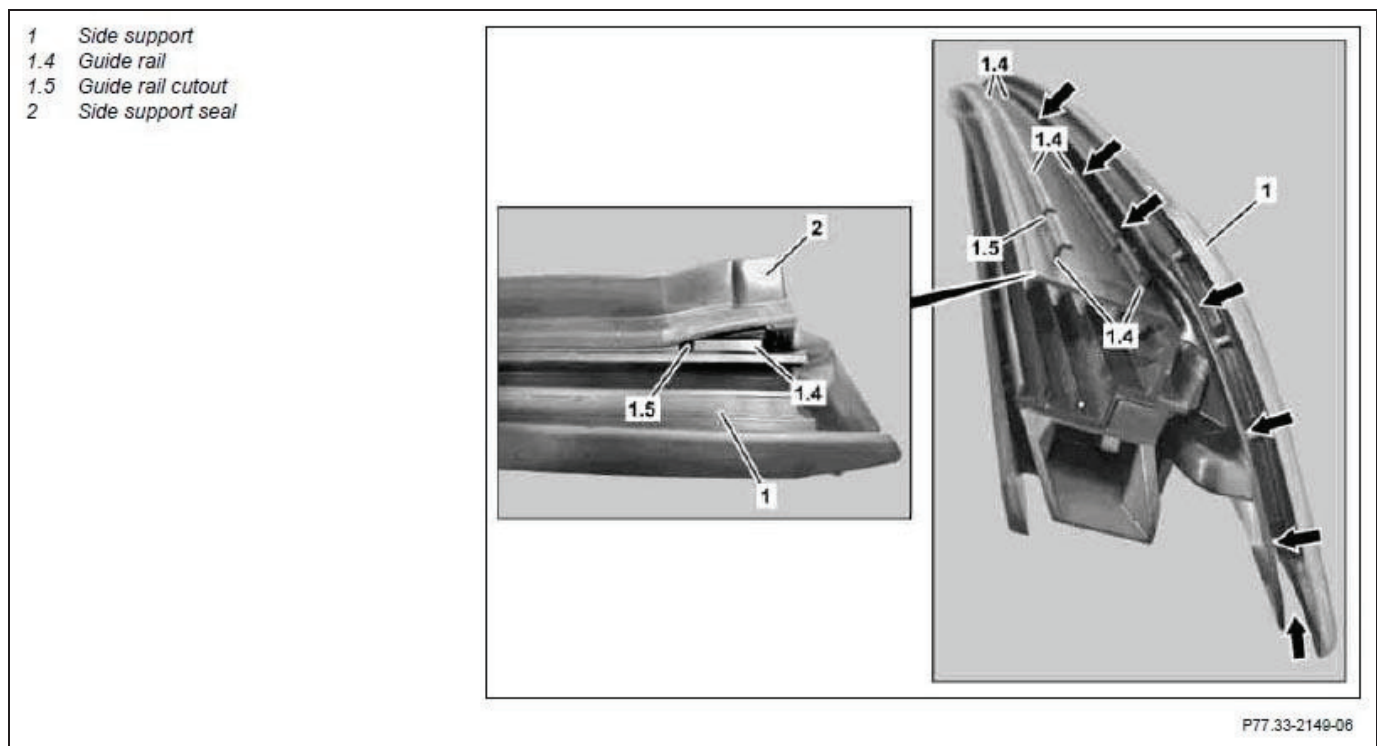
MODEL 451.4

Fig 1: Identifying Side Support Seal Components (1 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Side Support Seal Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.




Removing



Notes on soft tops

AH77.30-P-0001-

1	Completely open soft top	
2	Remove side support (1)	
3	Remove side support seal (2) from side support (1)	ⓘ Lay side support (1) down on suitable base to prevent damage when removing side support seal (2).
		ⓘ Before removal, observe route and position of side support seal (2).
	Install	
4	Moisten side support seal (2) at connection points with lubricant.	
5	Insert guide (1.1) of side support (1) into shackle (2.1) on side support seal (2)	ⓘ Lay side support (1) down on suitable base to prevent damage when installing side support seal (2).
		ⓘ Ensure that guide pin (1.2) is seated correctly.
6	Insert shackle (2.3) into guide pin (1.3)	ⓘ Ensure that shackle (2.3) is seated correctly.
7	Position side support seal (2) over entire length (arrows) of side support (1)	ⓘ Ensure that recess (2.2) is seated correctly. Ensure that side support seal (2) is seated correctly in guide rail (1.4) and guide rail cutout (1.5).
8	Install side support (1)	
9	Close soft top	

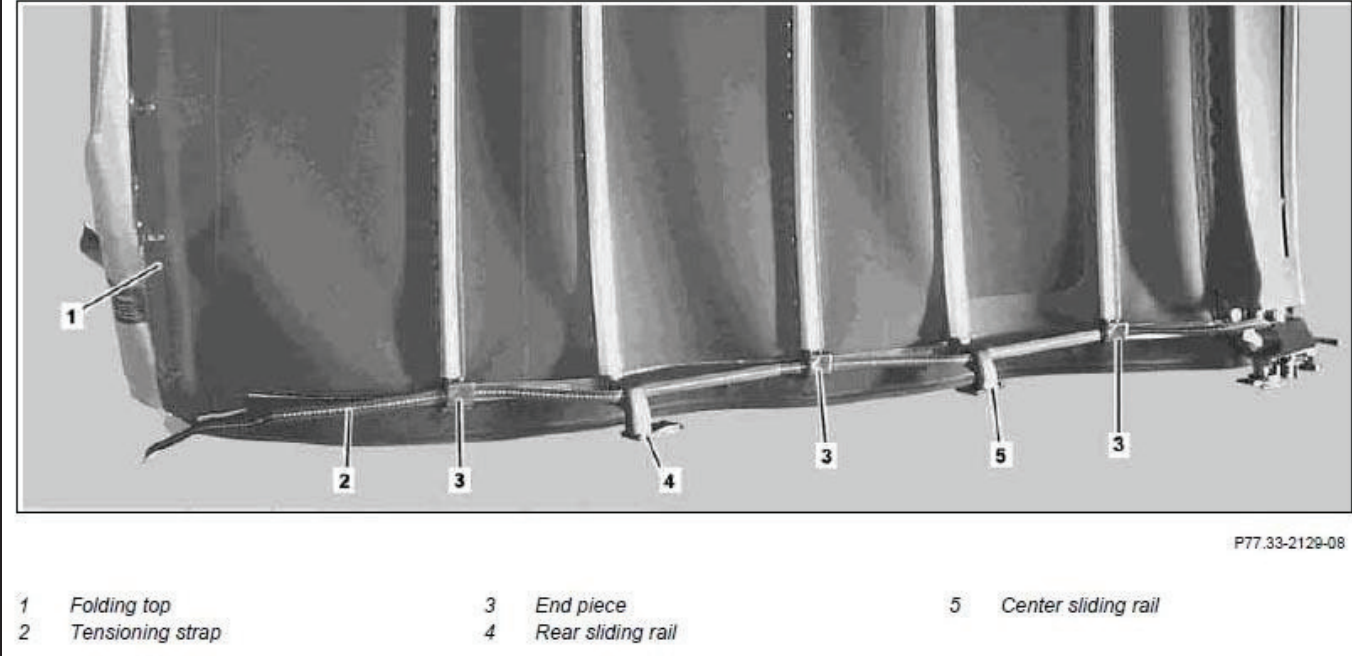
TESTING & REPAIR > REMOVE/INSTALL SOFT TOP BOW SLIDER - AR77.33-P-2000MCU

>

MODEL 451.4

Shown on left side of vehicle

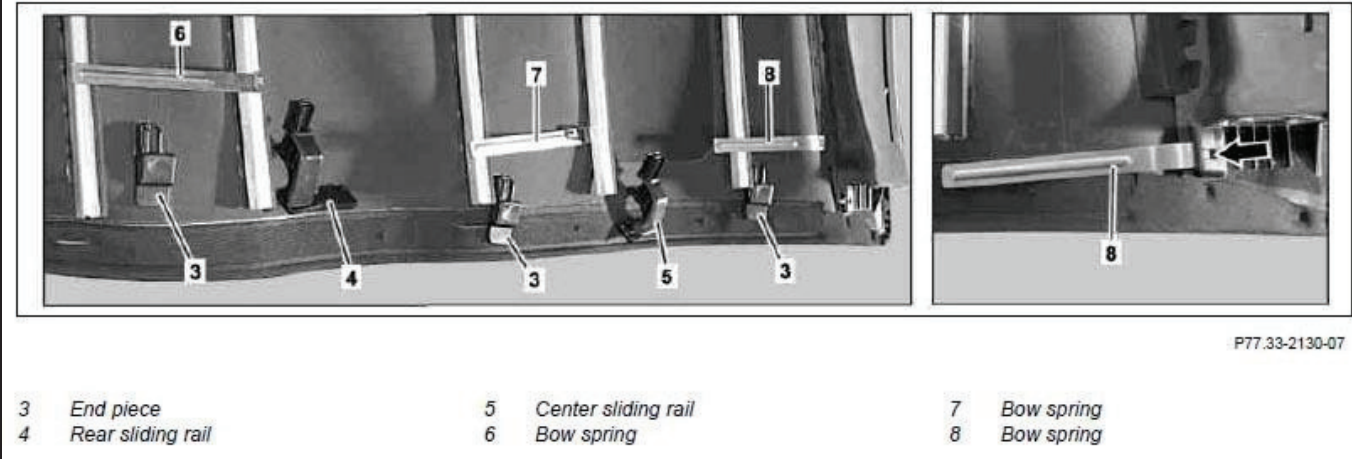
Fig 1: Identifying Soft Top Bow Slider Components (1 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.




Shown on left side of vehicle

Fig 2: Identifying Soft Top Bow Slider Components (2 Of 2)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

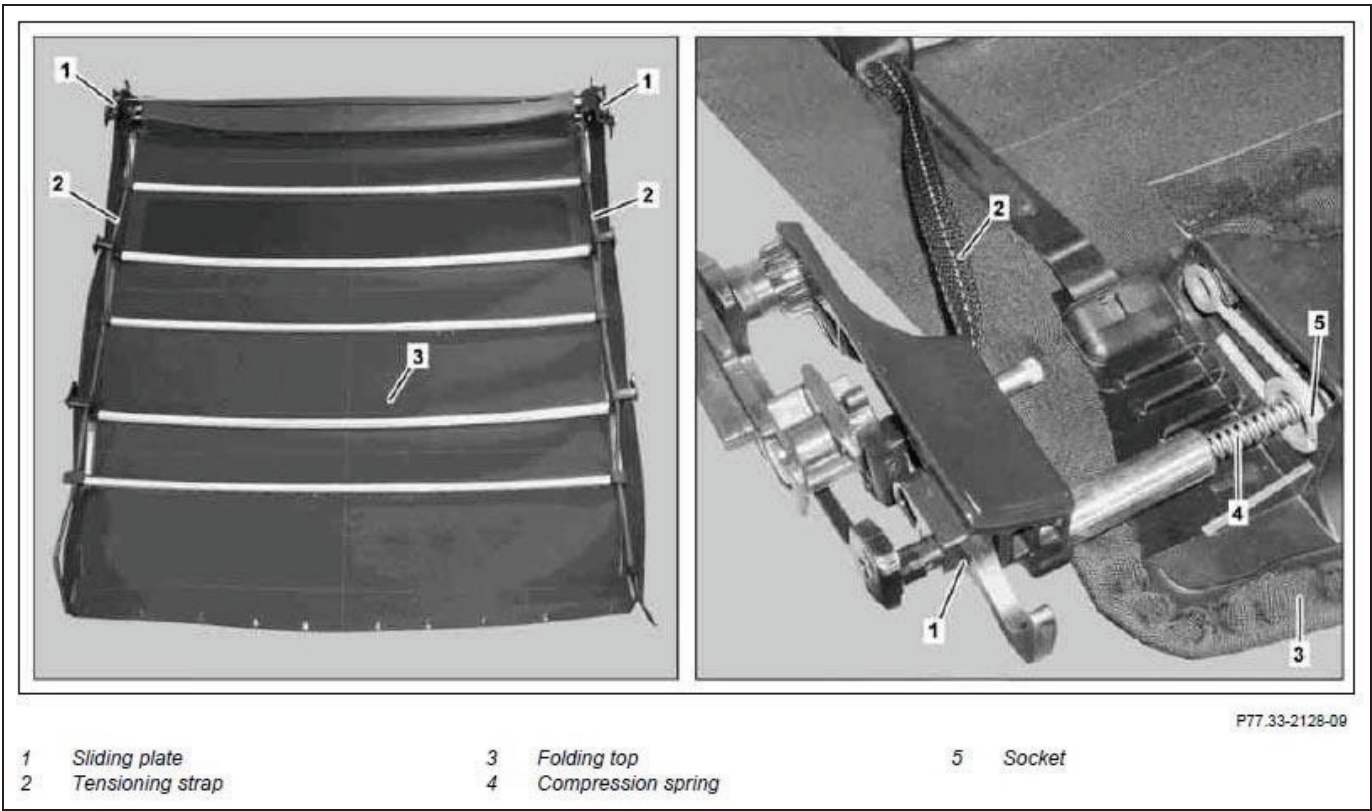
✕ Removing		
i	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove soft top (1).	AR77.30-P-1100MCU
2	Pull tensioning straps (2) out of rear sliding rails (4), center sliding rails (5) and end pieces (3).	
3	Pull rear sliding rails (4) with bow springs (6) out of soft top bow and	

	remove pockets in soft top (1).	
4	Pull center sliding rails (5) with bow springs (7) out of soft top bow and remove pockets in soft top (1).	
5	Pull end pieces (3) out of soft top bows and remove from pockets in soft top (1).	
6	Loosen bow springs (8) from roof peak (arrow) using suitable tool.	
	Install	
7	Match new bow springs (6, 7) to center sliders (5) or rear sliders (4)	 The bow springs (6, 7, 8) are different.
8	Insert new bow springs (8) into roof peak.	
9	Insert new bow springs (7) into new center sliding rails (5), hook into pockets in soft top (1) and insert into soft top bow.	
10	Insert new bow springs (6) into new rear sliding rails (4), hook into pockets in soft top (1) and insert into soft top bow.	
11	Install end pieces (3) on bow springs (6, 7, 8), hook into pockets in soft top (1) and insert into soft top bow.	
12	Pull tensioning straps (2) into rear sliding rails (4), center sliding rails (5) and end pieces (3).	 Ensure that tensioning straps (2) are not twisted when pulled in.
13	Install soft top (1).	AR77.30-P-1100MCU

TESTING & REPAIR > REMOVE/INSTALL ROOF PEAK SLIDING PLATE - AR77.33-P-2010MCU >

MODEL 451.4

Fig 1: Identifying Roof Peak Sliding Plate Components



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Remove/install	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove soft top (3).	AR77.30-P-1100MCU
2	Pull tensioning straps (2) out of sliding rails and end pieces	Installation: Ensure that tensioning straps (2) are not twisted when pulled in.
3	Remove sliding plates (1) with push springs (4) from roof edge.	
4	Remove sockets (5) from roof edge.	
5	Install in the reverse order	

TESTING & REPAIR > REMOVE/INSTALL CENTERING AID - AR77.33-P-2020MCO >

MODEL 451.4

Fig 1: Identifying Centering Aid & Bolt



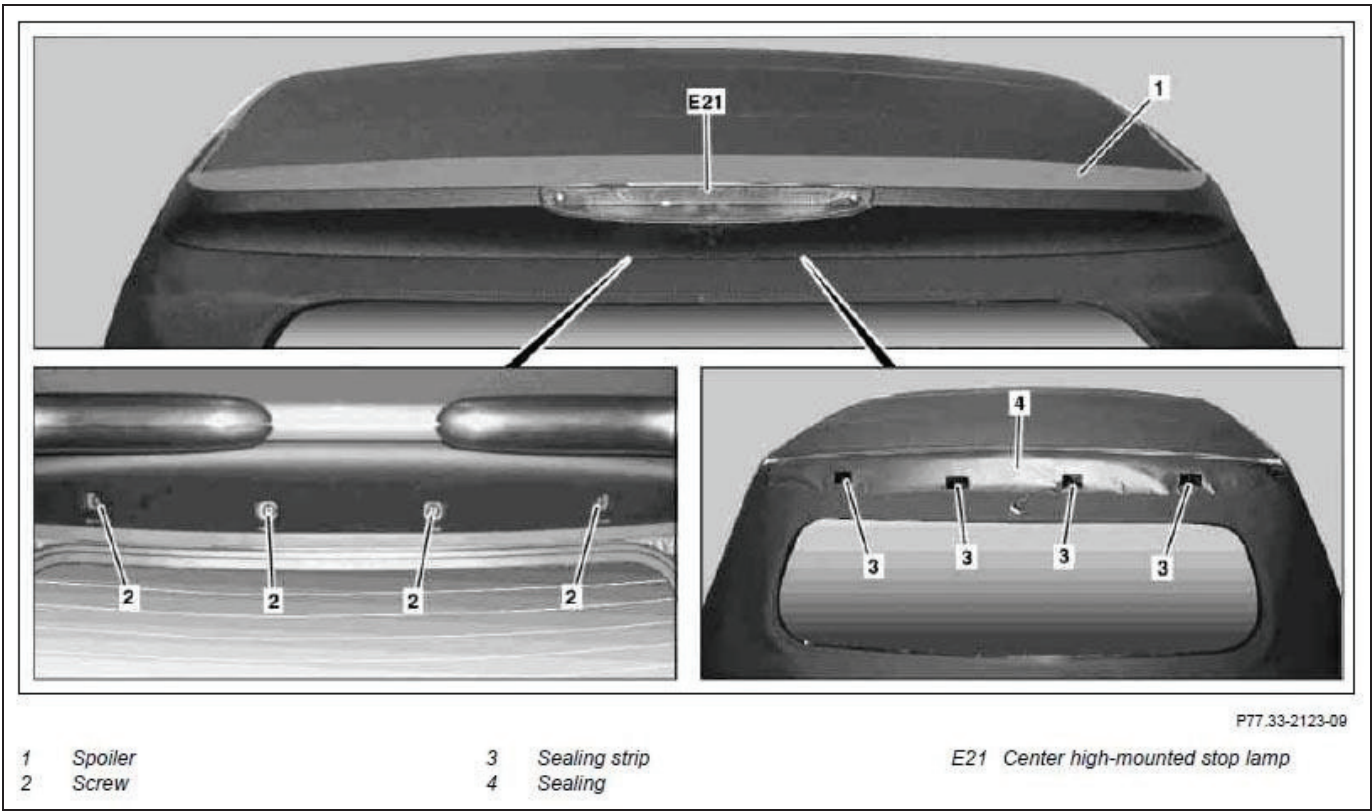
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Remove/install	
	Notes for soft tops	AH77.30-P-0001-01MCO
1	Open soft top until bolt (2) on centering aid (1) is accessible.	
2	Unscrew bolt (2) and remove centering aid (1).	
3	Install in the reverse order	
4	Check soft top for proper function, close soft top.	

TESTING & REPAIR > REMOVE/INSTALL ROOF CASSETTE SPOILER - AR77.33-P-2030MCU >

MODEL 451.4

Fig 1: Identifying Roof Cassette Spoiler Components



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

⊠	Removing		
i	Notes on soft tops		AH77.30-P-0001-01MCO
1	Remove center high-mounted stop lamp (E21)		AR82.10-P-5375MCC
2	Remove bolts (2)		
3	Remove spoiler (1).		
4	Remove old sealant from spoiler (1) and from seal (4) on soft top.	i If the seal (4) does not make contact to the soft top, reglue completely.	
		Refer to: ↓	
		Remove/install folding top	AR77.30-P-1100MCU
⊠	Install		
5	Cut sealing strip (3) down to approx. 30 mm as shown on seal (4) on soft top.		*BR00.45-Z-1091-01A
6	Insert bolts (2) into through holes.	i Aid of helper required.	
7	Position spoiler (1) and tighten bolts (2).	i Aid of helper required. Screw in bolts (2) alternately and uniformly.	

Number	Designation	Order number
BR00.45-Z-1091-01A	Sealing strip 119.32 Terostat 20 x 2 mm	www.henkel.com




Fig 1: Identifying B-Pillar Catch Components



Fig 2: Identifying B-Pillar Catch Dimension



	Removing	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Completely open soft top	
2	Remove left and right paneling (1) from B-pillar	AR68.30-P-4700MCV

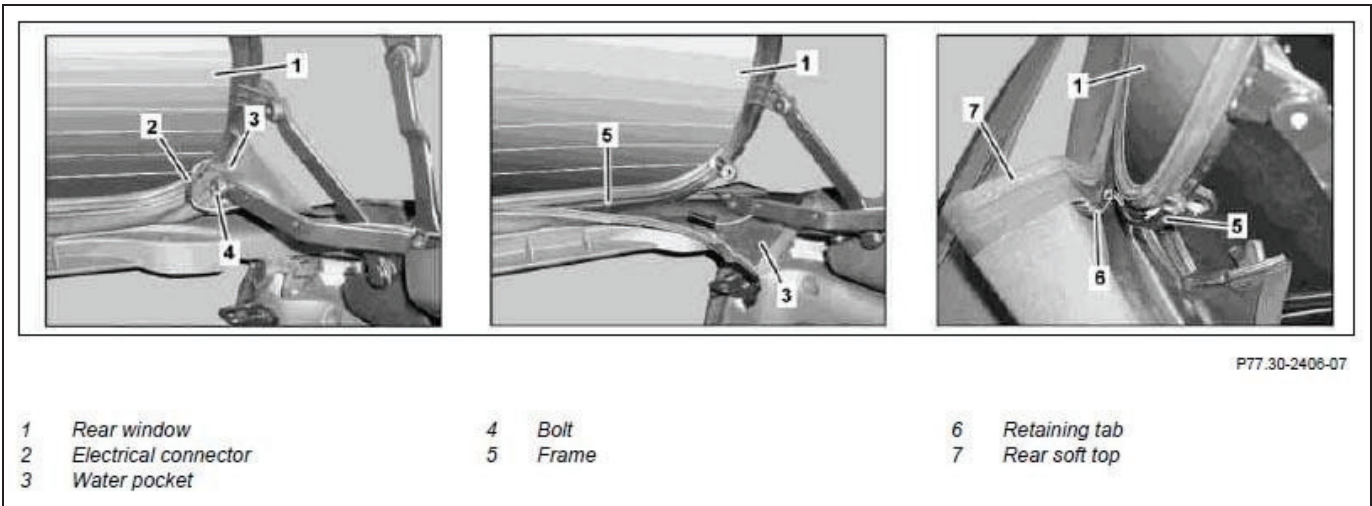
3	Mark position of B-pillar catch (3) using suitable pen	
4	Unscrew bolts (2) and remove B-pillar lock (3).	
	Install	
5	Position B-pillar catch (3) on B-pillar according to markings and tighten bolts (2)	
6	Install side support and check correct arresting of side support and contact pressure of seal, loosen bolts (2) if applicable and readjust position of B-pillar catch (3). Then tighten bolts (2)	 The side support should arrest securely in second latch.
7	Close soft top and check transition between guide (4) in side support and guide (5) in roof cassette lock	 The dimension (A) should be smaller than 1 mm, the guide (4) in the side support and the guide (5) in the roof cassette lock should be at the same height. If necessary, open soft top, loosen bolts (2) and readjust position of B-pillar catch (3). Then tighten bolts (2). Then recheck transition between guide (4) in side support and guide (5) in roof cassette lock.
8	Remove side support	
9	Remove markings.	
10	Install paneling (1) on B-pillar	AR68.30-P-4700MCV
11	Check soft top for proper function, close soft top.	

TESTING & REPAIR > REMOVE, INSTALL REAR SOFT TOP WINDOW - AR77.35-P-1000MCO >

MODEL 451.4

Shown on left side of vehicle

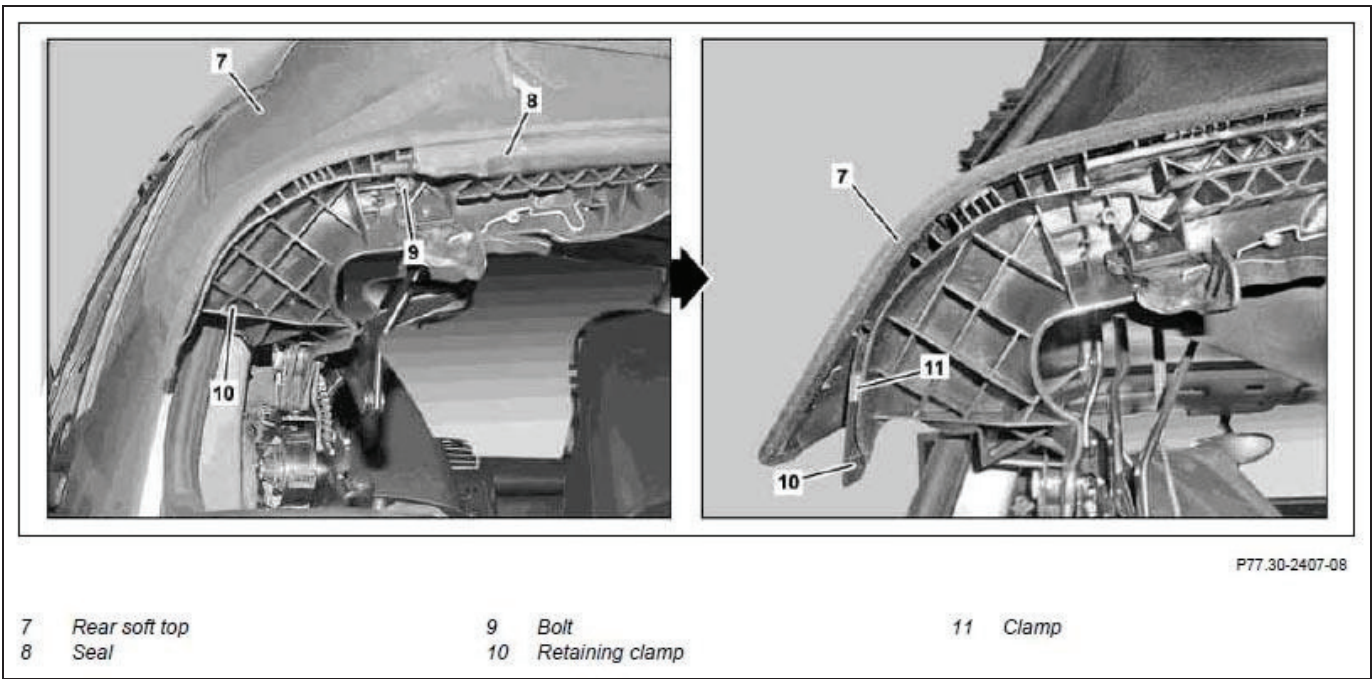
Fig 1: Identifying Rear Soft Top Window Components (1 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

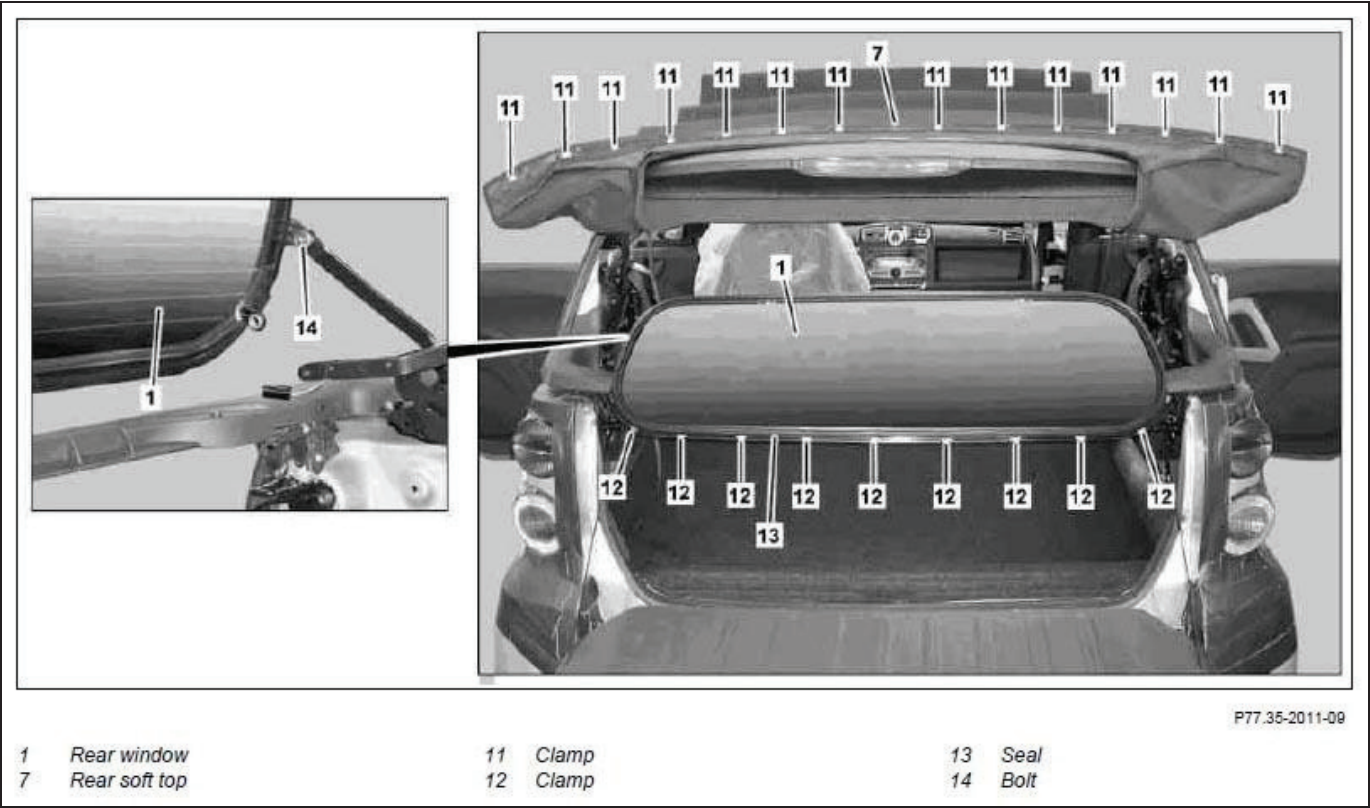
Shown on left side of vehicle

Fig 2: Identifying Rear Soft Top Window Components (2 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

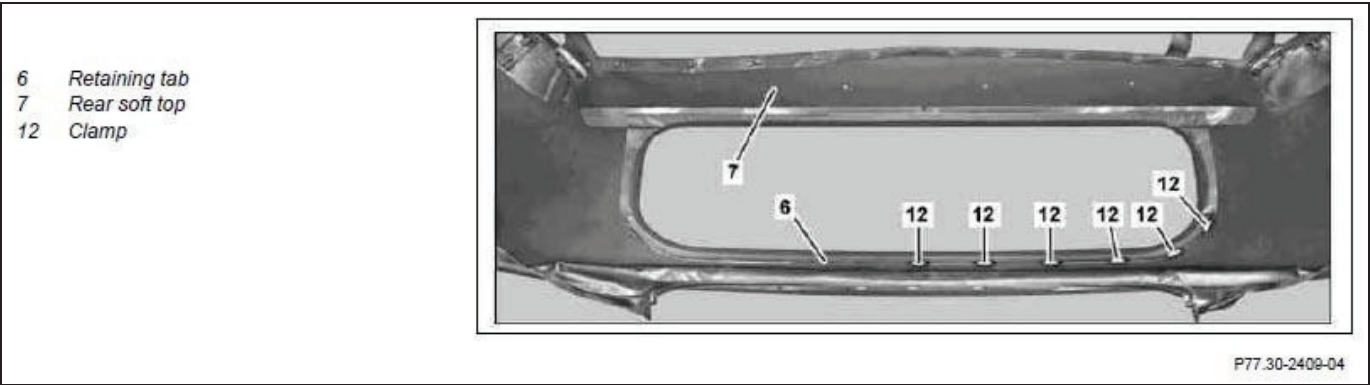
Fig 3: Identifying Rear Soft Top Window Components (3 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.





Shown on removed rear soft top

Fig 4: Identifying Retaining Tab, Rear Soft Top And Clamps



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Remove/install	
	Notes for soft tops	AH77.30-P-0001-01MCO
1	Separate electrical connectors (2)	
2	Remove bolts (4)	
3	Pull retaining tab of water pocket (3) out of frame	

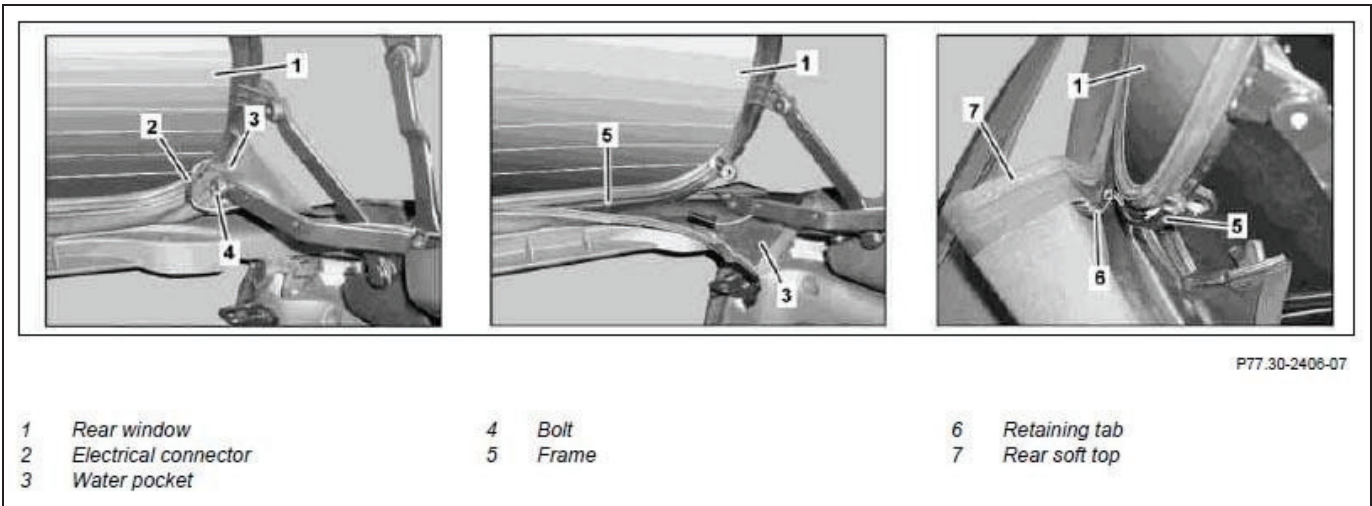
	(5) on rear window (1).	
4	Pull retaining tab (6) of rear soft top (7) out of frame (5) on rear window (1).	
5	Remove clips (12) remaining in frame (5) with suitable plastic wedge.	 Installation: Install clips (12) on retaining lug (6) on rear soft top (7).
6	Fold up retaining clip (10), unscrew bolts (9) and pull seal (8) out of retaining clip (10).	
7	Unhook rear soft top (7) from retaining clip (10) from outside toward inside and fold up.	
8	Remove clips (10) remaining in retaining clips (11) with suitable plastic wedge.	 Installation: Attach clips (11) on hooking lug on rear soft top (7).
9	Unscrew bolts (14), remove rear window (1).	 Aid of helper required.
10	Pull seal (13) out of frame (5) on rear window (1).	When replacing rear window (1).
		 Installation: The ends of the seal (13) should make contact with one another at the bottom at the center of the frame (5).
11	Install in the reverse order	
12	Perform a function test	

TESTING & REPAIR > REMOVE, INSTALL REAR SOFT TOP WINDOW SEAL - AR77.35-P-1001MCO >

MODEL 451.4

Shown on left side of vehicle

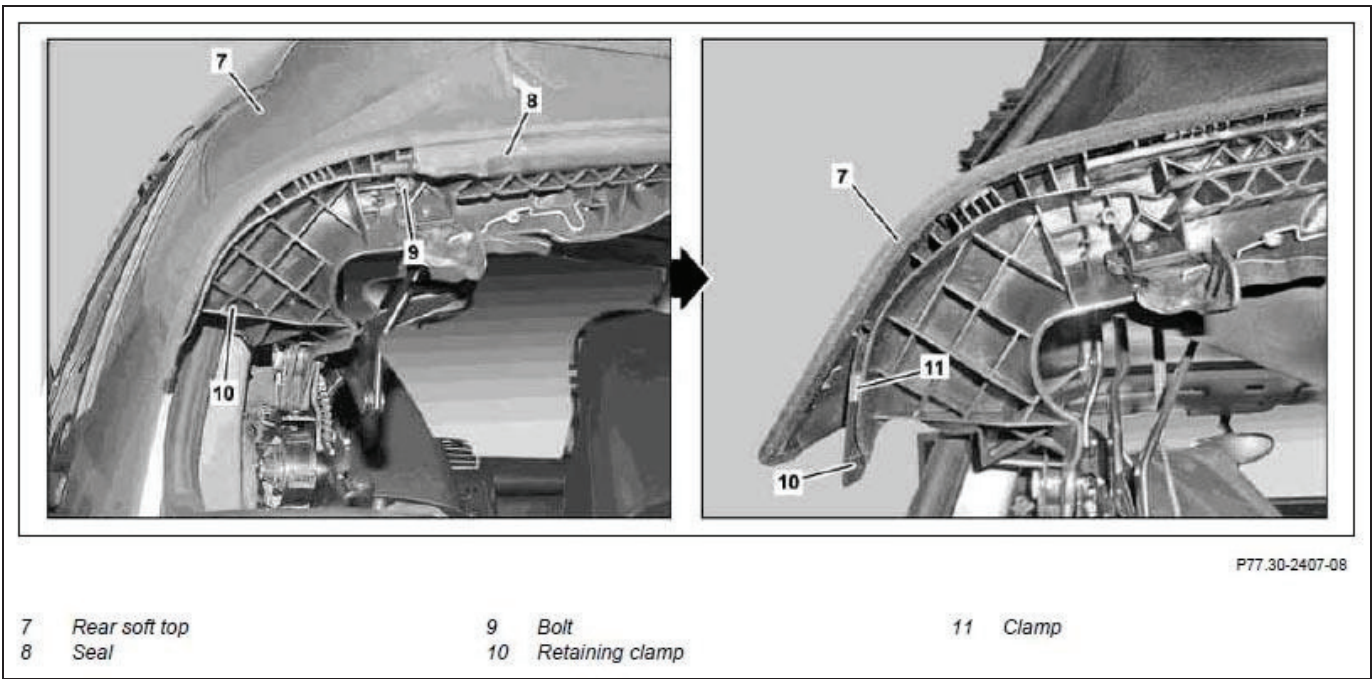
Fig 1: Identifying Rear Soft Top Window Components (1 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

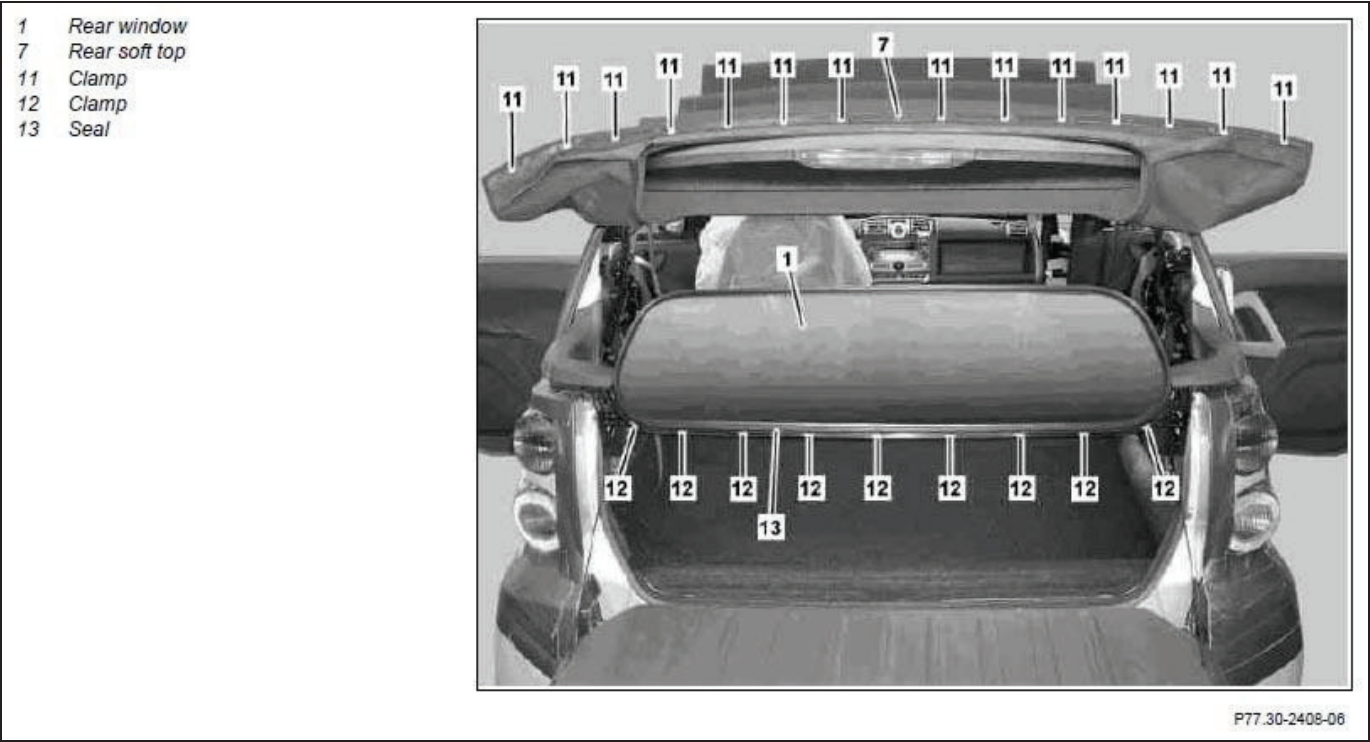
Shown on left side of vehicle

Fig 2: Identifying Rear Soft Top Window Components (2 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

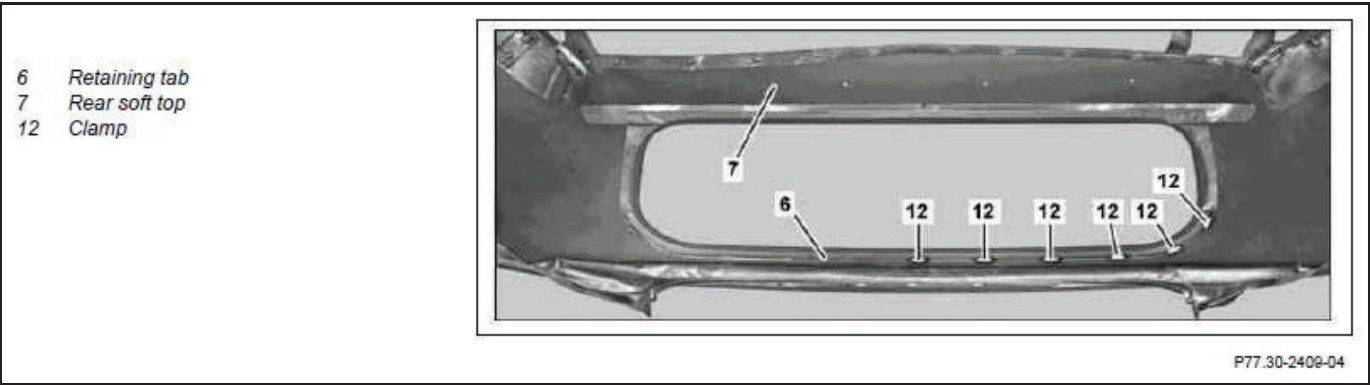
Fig 3: Identifying Rear Soft Top Window Components (3 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Shown on removed rear soft top

Fig 4: Identifying Retaining Tab, Rear Soft Top And Clamps



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

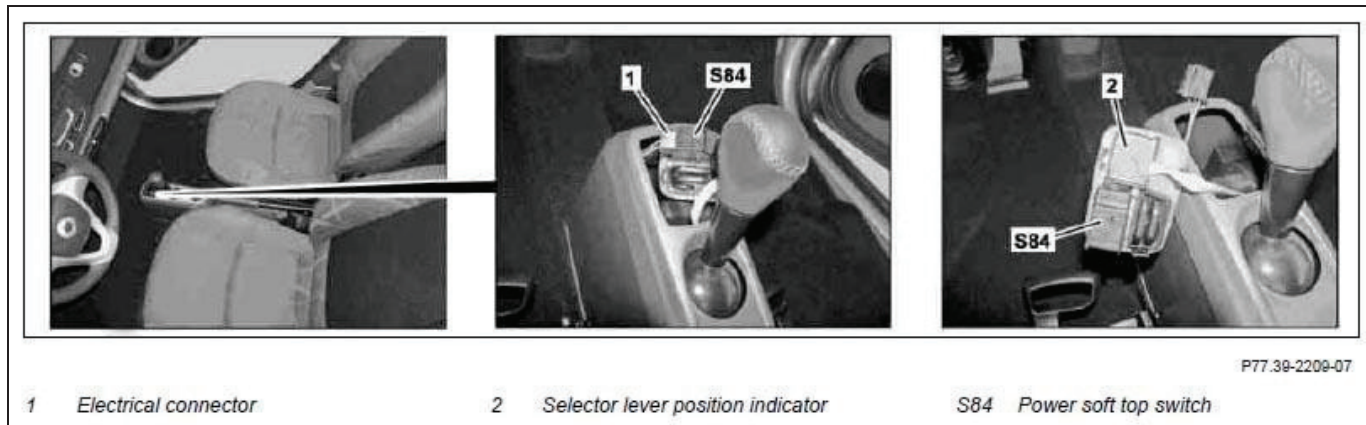
	Remove/install	
	Notes for soft tops	AH77.30-P-0001-01MCO
1	Separate electrical connectors (2)	
2	Remove bolts (4)	
3	Pull retaining tab of water pocket (3) out of frame (5) on rear window (1).	

4	Pull retaining tab (6) of rear soft top (7) out of frame (5) on rear window (1).	
5	Remove clips (12) remaining in frame (5) with suitable plastic wedge.	i Installation: Install clips (12) on retaining lug (6) on rear soft top (7).
6	Fold up retaining clip (10), unscrew bolts (9) and pull seal (8) out of retaining clip (10).	
7	Unhook rear soft top (7) from retaining clip (10) from outside toward inside and fold up.	
8	Remove clips (10) remaining in retaining clips (11) with suitable plastic wedge.	i Installation: Attach clips (11) on hooking lug on rear soft top (7).
9	Pull seal (13) out of frame (5) on rear window (1).	i Installation: The ends of the seal (13) should make contact with one another at bottom at the center of the frame (5).
10	Install in the reverse order	
11	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL POWER SOFT TOP SWITCH - AR77.39-P-1000MCU >

MODEL 451.4

Fig 1: Identifying Electrical Connector, Selector Lever Position Indicator And Power Soft Top Switch



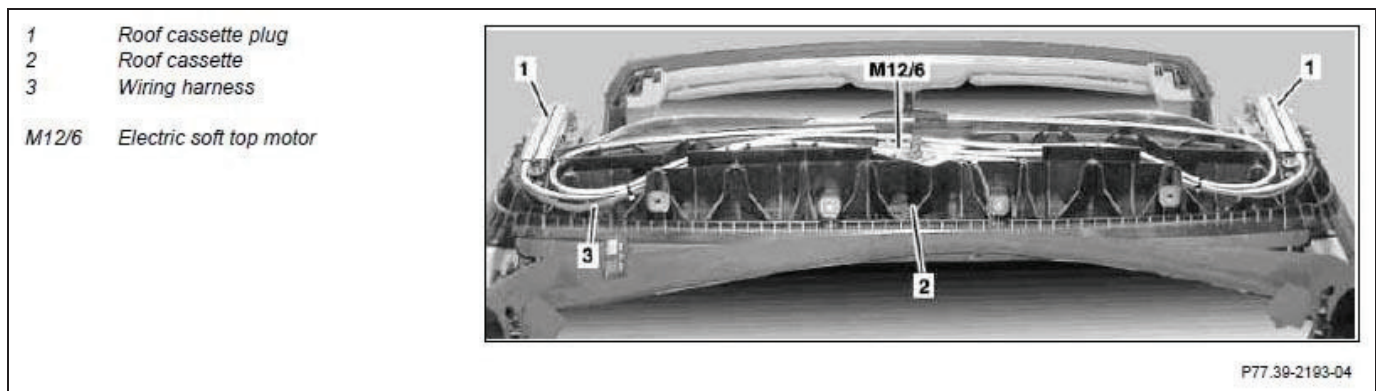
✕✕	Remove/install
1	Unclip selector lever position indicator (2) from selector lever cover
2	Lift selector lever position indicator (2) until electrical connector (1) is accessible
3	Disconnect electrical connector (1)
4	Unclip soft top actuation switch (S84) from selector lever position indicator (2) and remove
5	Install in the reverse order
6	Check power soft top switch (S84) for proper function

TESTING & REPAIR > REMOVE, INSTALL REAR SOFT TOP DRIVE WIRING HARNESS - AR77.39-P-1010MCU >

MODEL 451.4

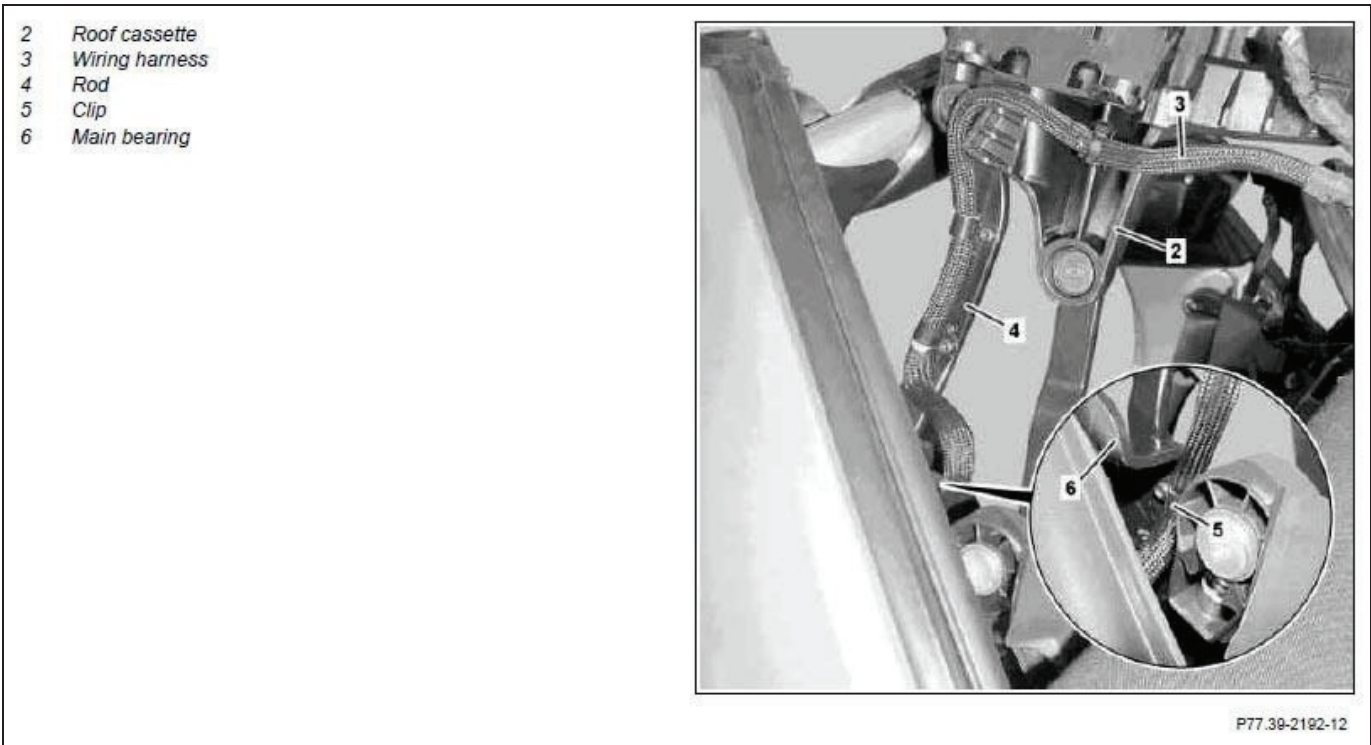
Left wiring harness

Fig 1: Identifying Left Rear Soft Top Drive Wiring Harness Components (1 Of 3)



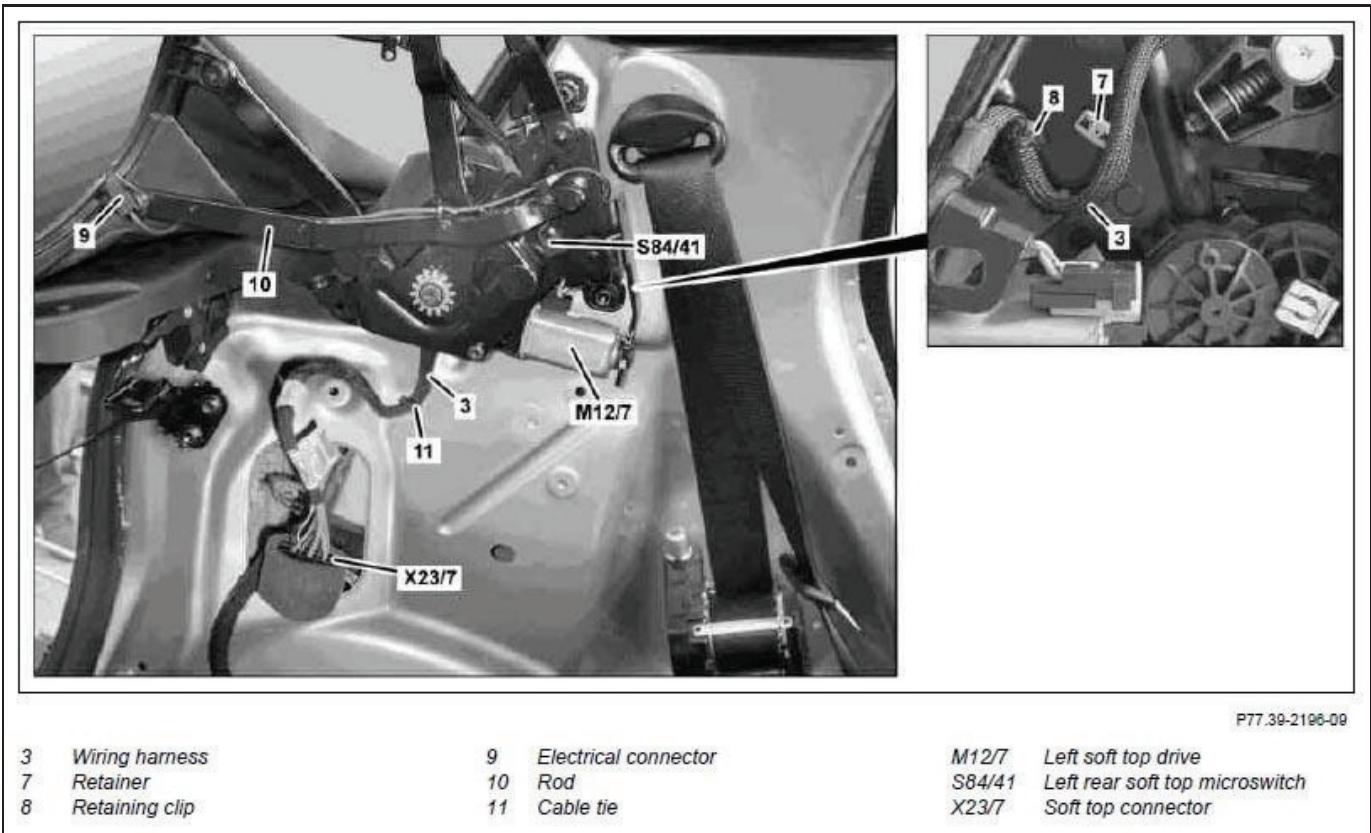
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Left Rear Soft Top Drive Wiring Harness Components (2 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 3: Identifying Left Rear Soft Top Drive Wiring Harness Components (3 Of 3)



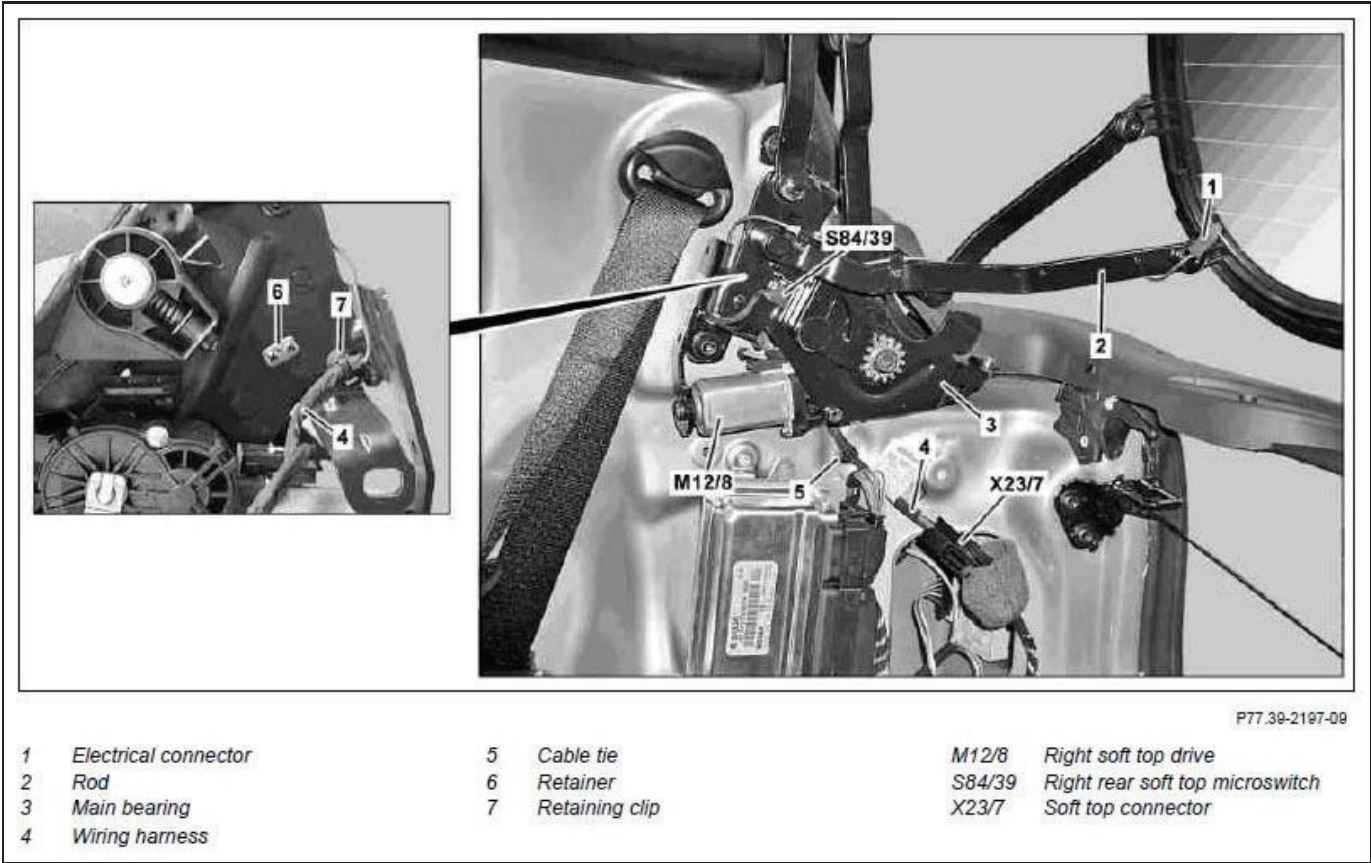
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

		01MCO
1	Remove roof cassette locks (1).	AR77.30-P-1110MCU
2	Remove electric soft top motor (M12/6)	AR77.39-P-4000MCU
3	Guide electric wiring harness (3) out of roof cassette (2).	
4	Remove electric wiring harness (3) on roof cassette (2) and steering wheel (4)	
5	Remove clamp (5) from main bearing (6).	
6	Remove left soft top drive (M12/7)	AR77.39-P-4010MCU
7	Disconnect electrical connector (9) and remove electric wiring harness (3) from steering wheel (10).	
8	Guide soft top connector (X23/7) out of B-pillar, disconnect and open cable tie (11).	
9	Remove retainer (7) from retaining bolts on left rear soft top microswitch (S84/41) using suitable tool and remove left rear soft top microswitch (S84/41)	ⓘ Do not damage retaining bolts, otherwise it is necessary to replace the electric wiring harness (3).
10	Remove retaining clip (8) from main bearing (6) and remove electric wiring harness (3)	ⓘ Installation: Route electric wiring harness (3) to prevent it from being damaged by chafing and pinching, otherwise electric wiring harness (3) must be replaced.
11	Install in the reverse order	
12	Perform a function test	

MODEL 451.4

Right wiring harness

Fig 1: Identifying Rear Soft Top Drive Wiring Harness Components



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

	Remove/install	
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove right soft top drive (M12/8)	AR77.39-P-4010MCU
2	Guide soft top connector (X23/7) out of B-pillar, disconnect and open cable tie (5).	
3	Disconnect electrical connector (1) and remove electric wiring harness (4) from steering wheel (2).	
4	Remove retainer (6) from retaining bolts on right rear soft top microswitch (S84/39) using suitable	ⓘ Do not damage retaining bolts, otherwise it is necessary to replace

	tool and remove right rear soft top microswitch (S84/39)	the electric wiring harness (4).
5	Remove retaining clip (7) from main bearing (3) and remove electric wiring harness (4)	ⓘ Installation: Route electric wiring harness (4) to prevent it from being damaged by chafing and pinching, otherwise electric wiring harness (4) must be replaced.
6	Install in the reverse order	
7	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL FOLDING TOP MOTOR - AR77.39-P-4000MCU >
MODEL 451.4

Fig 1: Identifying Folding Top Motor Components

1

Guide tube

2

Roof cassette

3

Electrical connector

M12/6

Electric soft top motor

P77.39-2181-06

Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

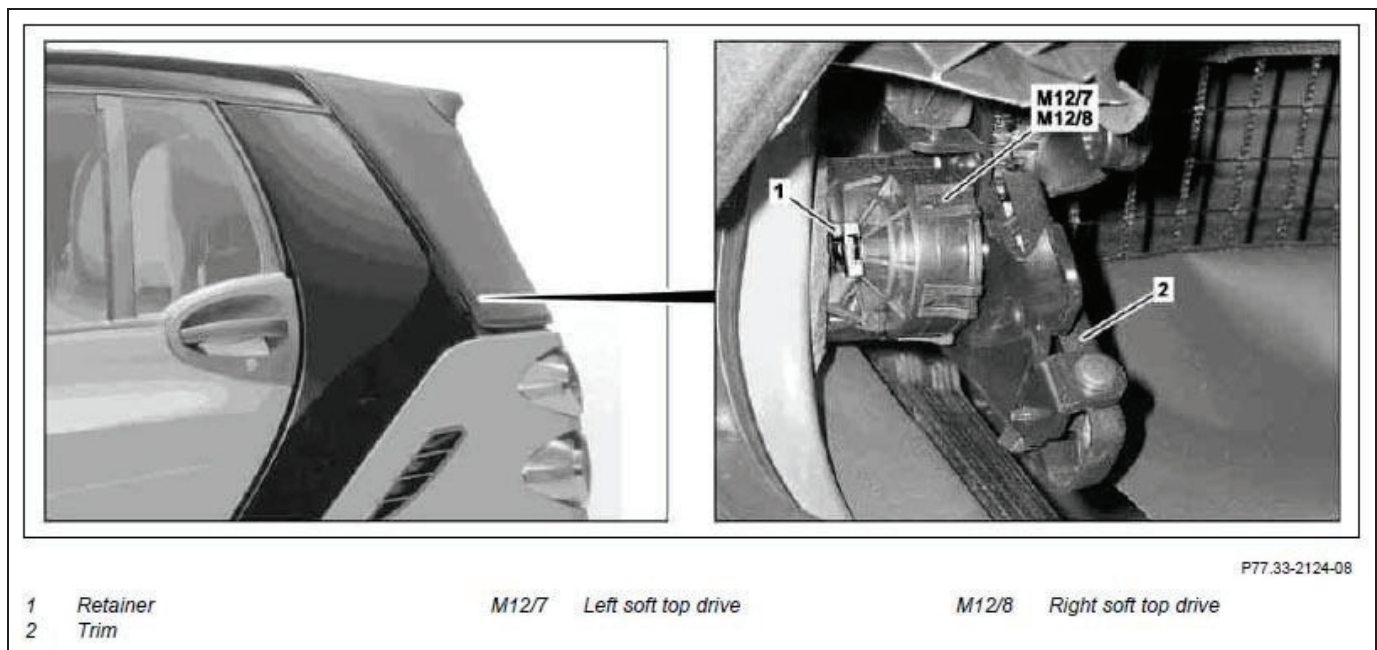
⊗ ⊗	Remove/install	
ⓘ	Notes on soft tops	AH77.30-P-0001-01MCO
1	Remove guide tube (1) from drive cable.	AR77.30-P-1112MCU
2	Lift electric power soft	ⓘ Installation:

	top motor (M12/6) out of roof cassette (2)	Observe routing of electrical cables.
3	Disconnect electrical connector (3)	
4	Install in the reverse order	
5	Perform a function test	

TESTING & REPAIR > REMOVE/INSTALL REAR SOFT TOP MOTOR - AR77.39-P-4010MCU >

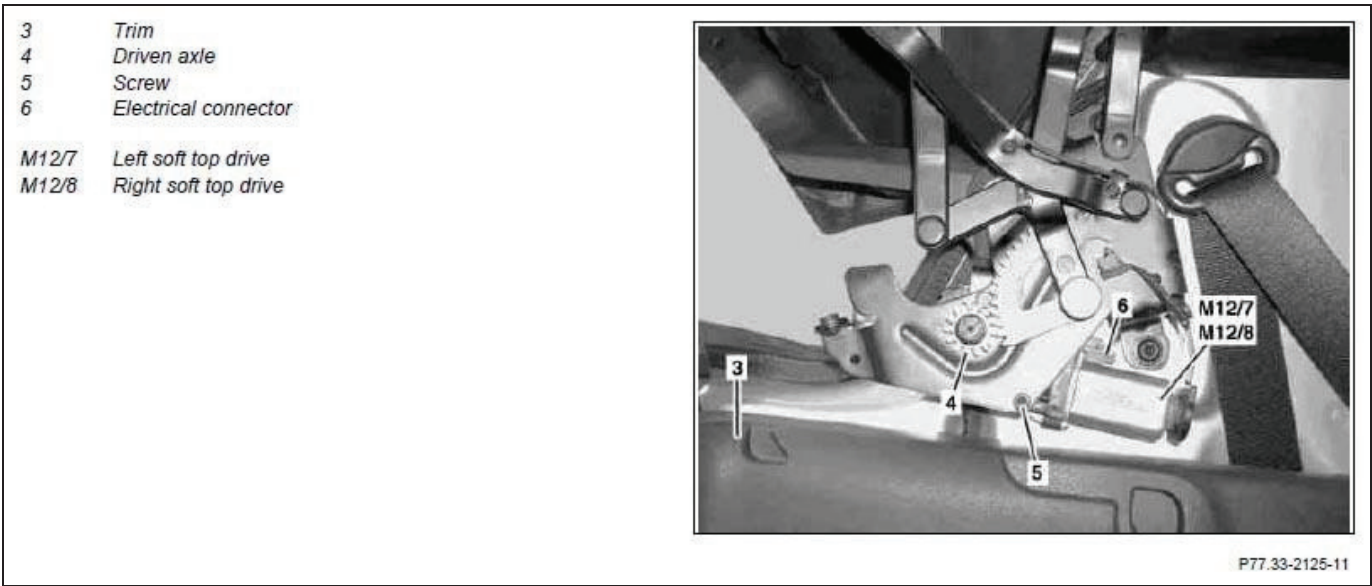
MODEL 451.4

Fig 1: Identifying Rear Soft Top Motor Components (1 Of 2)












Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 2: Identifying Rear Soft Top Motor Components (2 Of 2)




Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

 Removing		
	Notes on soft tops	AH77.30-P-0001-01MCO
1	Unlock lock lever and fold rear soft top upward.	 Ensure that rear soft top is engaged correctly on both sides.
2	Remove retainer (1) from drive axle (4).	
3	Remove left and right paneling (2) from B-pillar	AR68.30-P-4700MCV
4	Remove side paneling in trunk	AR68.30-P-4800MCU
5	Close rear soft top	
6	Open soft top until lock on B-pillar is opened.	
7	Relieve load from drive axle (4) by lifting roof cassette and remove drive axle (4).	 Aid of helper required.
8	Unscrew bolt (5) and remove left soft top drive (M12/7) or right soft top drive (M12/8)	 Counterhold nut of bolt (5).
9	Disconnect electrical connector (6) on left soft top drive (M12/7) or right soft top drive (M12/8)	 Carefully open arrest on connector (6), danger of breakage.
 Install		

10	Connect electrical connector (6) to left soft top drive (M12/7) or right soft top drive (M12/8)	
11	Insert left soft top drive (M12/7) or right soft top drive (M12/8) into main bearing, tighten bolt (5) and nut.	
12	Lift roof cassette until left and right side of soft top are in the same position, then install drive axle (4).	 Aid of helper required.
13	Close soft top	
14	Unlock lock lever and fold rear soft top upward.	 Ensure that rear soft top is engaged correctly on both sides.
15	Install retainer (1) on drive axle (4)	
16	Install paneling on side in trunk	AR68.30-P-4800MCU
17	Install paneling (2) on B-pillar	AR68.30-P-4700MCV
18	Close rear soft top	
19	Check soft top for proper function	

SAFETY PRECAUTIONS > SAFETY INFORMATION: SLIDING ROOF, SOFT TOP, TOP ATTACHMENTS - AS77.00-Z-9999ZZ >

MODEL all

 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	MODEL 170, 171.4, 230	AS77.50-Z-0001-01A
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TORQUE SPECIFICATIONS > TIGHTENING TORQUES: SMART: SLIDING ROOF, SOFT TOP, TOP ATTACHMENTS - BA77.00-Z-9999CZ >

MODEL all

Convertible top	MODEL 452.3 /4	BA77.30-P-1000-01C
Convertible top	MODEL 450.4 (except 450.418)	BA77.30-P-1000-01D
Electric sliding roof	MODEL 450.3 with CODE (V29) Electric glass sliding roof (FFO)	BA77.20-P-1000-01I
Electric sliding	MODEL 454.0 with CODE (V29) Electric glass sliding	BA77.20-P-1000-

roof	roof (FFO)	01D
Hardtop	MODEL 452.3 /4	BA77.30-P-1000-02A
Panoramic roof	MODEL 451.3	BA77.21-P-1000-01D
Soft top mechanics	MODEL 450.4	BA77.33-P-1000-01D

TEST & ADJUSTMENT VALUES > TEST AND ADJUSTMENT VALUES: SMART: SLIDING ROOF, SOFT TOP, TOP ATTACHMENTS - BE77.00-Z-9999CZ >

MODEL all

Vario roof and soft top mechanism	MODEL 451.4	BE77.33-P-1000-01B
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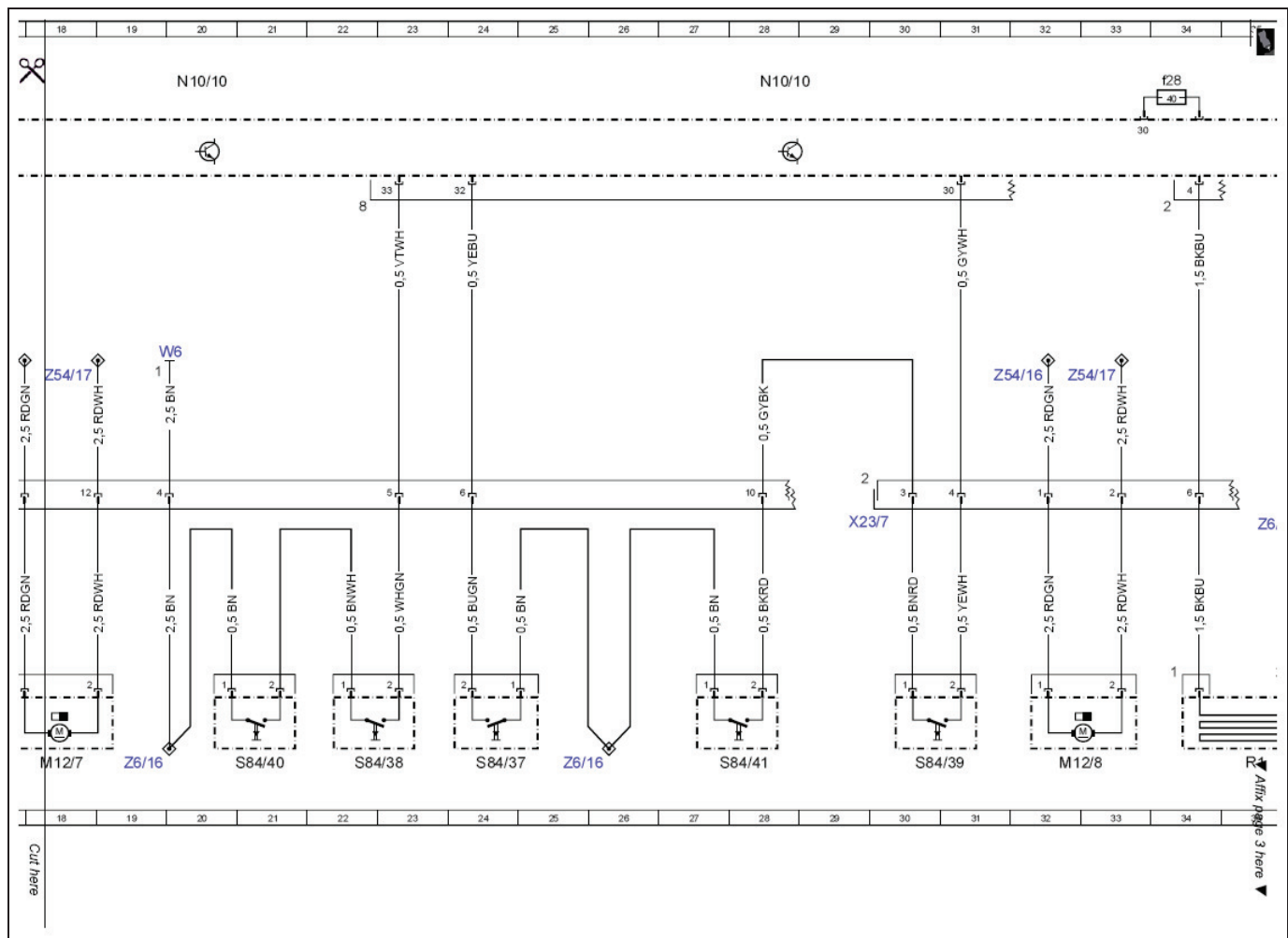
TEST & ADJUSTMENT VALUES > ELECTRIC WIRING DIAGRAM FOR ELECTRIC SOFT TOP - PE77.39-P-2200-97MCU >

Code:	Designation:	Position:
E21	Center high-mounted stop lamp	14L
K66/1	Open soft top relay	6L
K66/2	Close soft top relay	10L
M12/6	Electric soft top motor	16L
M12/7	Left soft top drive	18L
M12/8	Right soft top drive	33L
N10/10	SAM control unit	39A
N10/10	SAM control unit	20A
N10/10	SAM control unit	12A
N10/10	SAM control unit	4A
N10/10	SAM control unit	28A
N10/10f15	Fuse 15	3A
N10/10f20	Fuse 20	37A
N10/10f28	Fuse 28	34A
R1	Heated rear window	35L
S84	Power soft top switch	38L
S84/37	Soft top microswitch	24L
S84/38	Left roof cassette microswitch	23L
S84/39	Right rear soft top microswitch	31L
S84/40	Right roof cassette microswitch	21L

S84/41	Left rear soft top microswitch	28L
S9/1	Stop lamp switch	12L
U101	Valid up to 02/2009	5E
U102	Valid as of 03/2009	3E
W10	Ground (battery)	38E
W6	Ground (left wheelhouse in luggage compartment)	19E
W9	Ground (left front, at lamp unit)	2G
X23/7	Soft top connector	30G
X23/7	Soft top connector	15G
Z3/44	Instrument cluster - radio circuit 15 (fused) connector sleeve	37E
Z40	Stop lamp signal connector sleeve	12H
Z54/16	Soft top control "open" connector sleeve	32E
Z54/16	Soft top control "open" connector sleeve	17E
Z54/16	Soft top control "open" connector sleeve	7H
Z54/17	Soft top control "closed" connector sleeve	33E
Z54/17	Soft top control "closed" connector sleeve	18E
Z54/17	Soft top control "closed" connector sleeve	9H
Z6/16	Soft top ground connector sleeve	25L
Z6/16	Soft top ground connector sleeve	35H
Z6/16	Soft top ground connector sleeve	19L
Z6/16	Soft top ground connector sleeve	13H
Z7/59	Tml. 30 connector sleeve	4F

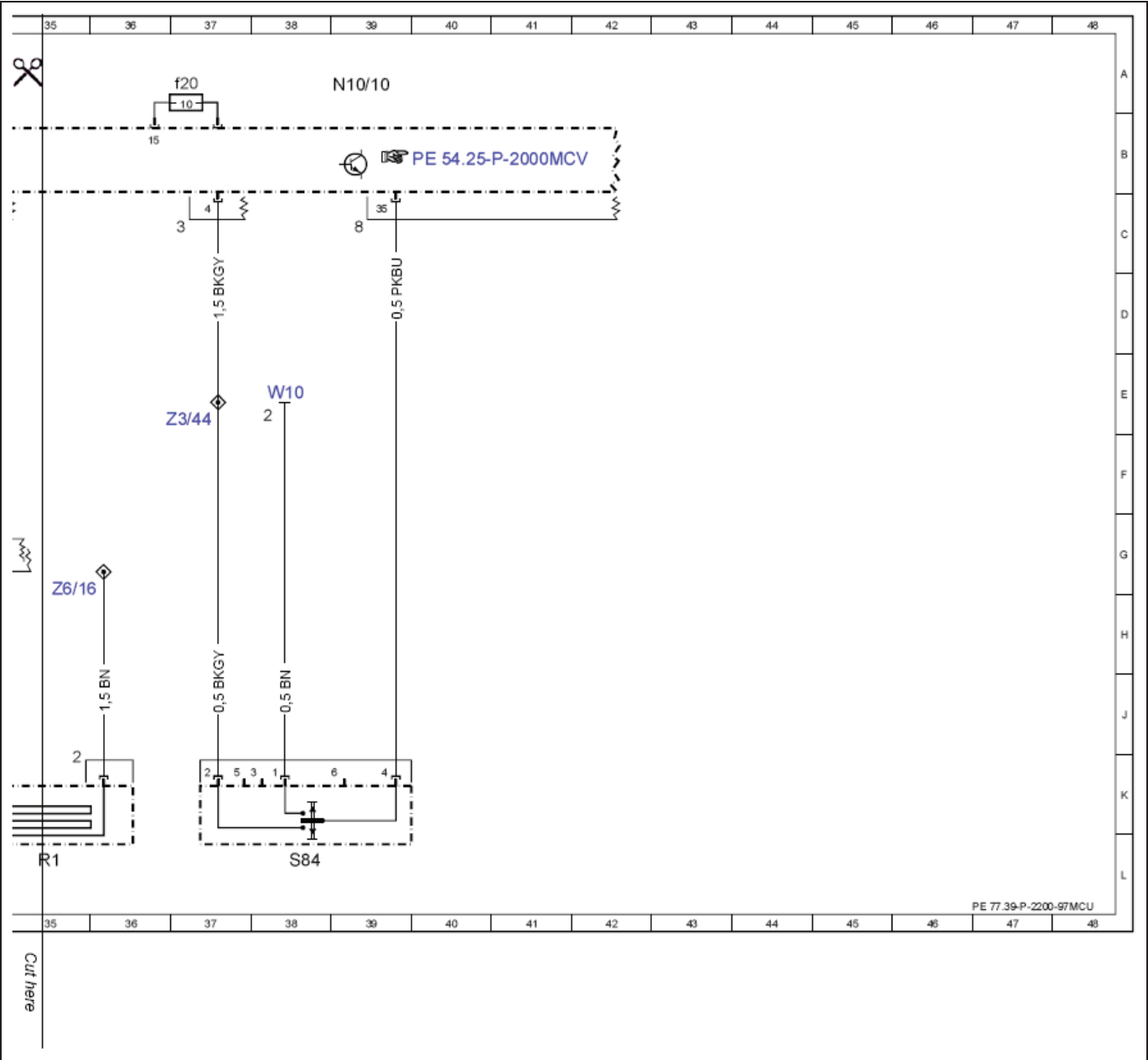
Affix page 2 here

Fig 2: Electric Soft Top - Wiring Diagram (2 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Fig 3: Electric Soft Top - Wiring Diagram (3 Of 3)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

TEST & ADJUSTMENT VALUES > VARIO ROOF AND SOFT TOP MECHANISM - BE77.33-P-1000-01B >




Model 451.4

SOFT TOP, LOCATION OF COMPONENTS

Number	Designation	Model 451.4
BE77.33-P-1001-01B	Soft top tension	O 35 (+10)

BASIC KNOWLEDGE > TABLE OF CONTENTS FOR FUNCTION DESCRIPTION OF SOFT TOP - GF77.30-P-0999MCU >

MODEL 451.4

	Soft top, location of components		GF77.30-P-0002-05MCC
 PE	Electrical function diagram for electrical center		PE54.25-P-2050MCU
 PE	Wiring diagram electrical center	Sheet 1	PE54.25-P-2000MCU
		Sheet 2	PE54.25-P-2000MCV
 PE	Electric wiring diagram for electric soft top		PE77.39-P-2200MCU
	Overview of system components for soft top, component description		GF77.30-P-9997MCU

BASIC KNOWLEDGE > OVERVIEW OF SYSTEM COMPONENTS FOR SOFT TOP, COMPONENT DESCRIPTION - GF77.30-P-9997MCU >

MODEL 451.4

Transmitter key, component description		GF80.57-P-6010MCU
Instrument cluster, component description	A1	GF54.30-P-6000MCU
Component description for the SAM control unit	N10/10	GF54.21-P-4157MCU
Soft top actuation switch, component description	S84	GF77.39-P-3120MCC
Table of contents for function description of soft top		GF77.30-P-0999MCU

BASIC KNOWLEDGE > SOFT TOP ACTUATION SWITCH, COMPONENT DESCRIPTION - GF77.39-P-3120MCC >

MODEL 451.4

Location

The soft top actuation switch is located in the center console.

Task

The soft top and rear soft top can be opened and closed via the soft top actuation switch. The actuation requests are read in directly by the SAM control unit (N10/10).

Fig 1: Locating Power Soft Top Switch



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Operation

Open/close soft top

The soft top is opened automatically to the end position by momentarily pressing the soft top actuation switch in the opening direction (arrow 1).

The soft top is opened manually by pressing and holding down the soft top actuation switch in the opening direction (arrow 1). If the opening request is terminated before the rear end position is reached, the soft top stops in the current position.

The soft top is closed by pressing and holding down the soft top actuation switch in the closing direction (arrow 2). If the closing request is terminated before the front end position is reached, the soft top stops in the current position.

Open/close rear soft top

When the soft top is opened completely and the soft top actuation switch is reactivated in the opening direction (arrow 1), the rear soft top is opened. If the opening request is terminated before the end position is reached and below a vehicle speed of 5 km/h, the rear soft top stops in the current position. The rear soft top is opened until the end position is reached at a vehicle speed above 5 km/h.

The rear soft top is closed by actuating the soft top actuation switch in the closing direction (arrow 2). If the closing request is terminated before the end position is reached and below a vehicle speed of 5 km/h, the rear soft top stops in the current position. The rear soft top is opened until the end position is reached at a vehicle speed above 5 km/h.

WIRING DIAGRAMS > ELECTRIC WIRING DIAGRAM FOR ELECTRIC SOFT TOP - PE77.39-P-2200MCU >

MODEL 451

Electric wiring diagram for electric soft top	PE77.39-P-2200-97MCU
Use of wiring diagrams	OV00.01-P-1901-03MCC

Search aid for all wiring diagram groups	OV00.01-P-1901MCU
Abbreviations for wiring diagrams	OV00.01-P-1001-27MC
Abbreviations of signal and circuit designations for wiring diagrams	OV00.01-P-1001-28MC
Location and assignment of line and connectors	GF00.19-P-1000MCU
Location and assignment of ground points	GF00.19-P-2000MCU
Location and assignment of Z connector sleeves (line connectors in wiring harness)	GF00.19-P-3000MCU
Further wiring diagrams	PE54.00-P-1100MCU

SPECIAL TOOLS > 129 589 01 98 00 WELDING BEAD CATCHER - WS77.00-P-0010K >

Group 00/63/77/Set K

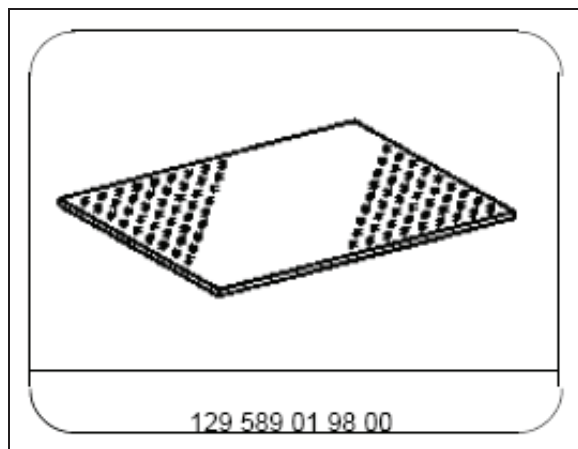
MODEL all

Use:

Welding bead catcher for covering vehicle parts during welding



Fig 1: Identifying Welding Bead Catcher (129 589 01 98 00)



Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

SPECIAL TOOLS > SPECIAL TOOLS: SMART: SLIDING ROOF, SOFT TOP, TOP ATTACHMENTS - WS77.00-Z-9999CZ >

MODEL all

110 589 03 59 00 Mounting wedge	FG 00/01/05/13/18/ 26/54/67/68/72/77/80/82/83/88/91/ Set K	WS00.00-P-0274K
129 589 01 98 00 Welding bead catcher	Group 00/63/77/Set K	WS77.00-P-0010K
129 589 03 21 00 Feeler gauge	FG 60/62/63/64/65/ 67/72/77/82/88/ Set K	WS60.00-P-0027K
450 589 02 23 00 Gage	FG 77/Set K	WS77.00-P-

		0031K
450 589 08 37 00 Pliers	Group 77/Set B	WS77.00-P-0030B
452 589 01 09 00 Wrench socket SW 15	FG 77/Set K	WS77.00-P-0034K
452 589 01 15 00 Drift	FG 77/Set K	WS77.00-P-0037K
452 589 01 21 00 Feeler gauge	FG 60/62/63/64/65/67 72/77/82/88/Set K	WS60.00-P-0107K
452 589 02 23 00 Soft top template	Group 77/Set K	WS77.00-P-0048K
452 589 02 99 00 Wiring harness repair kit	FG 00/54/77/83/ Set B	WS00.00-P-0243B