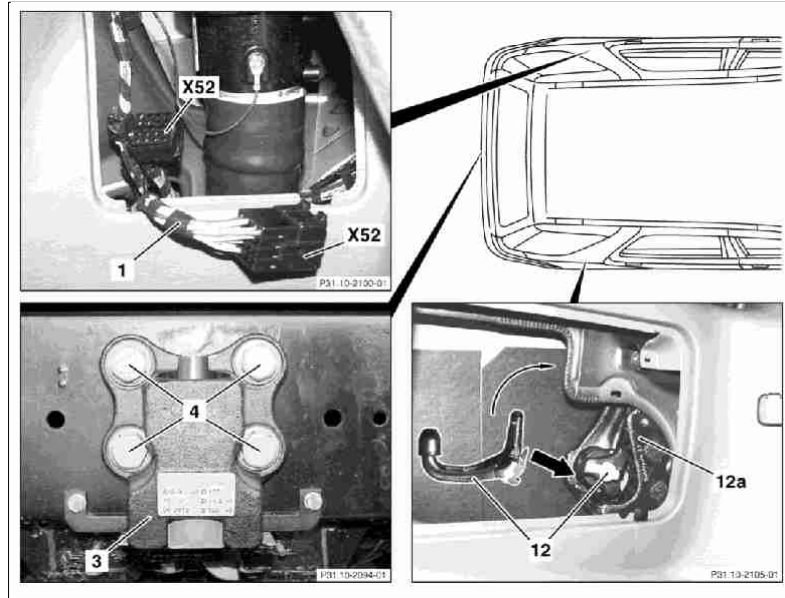


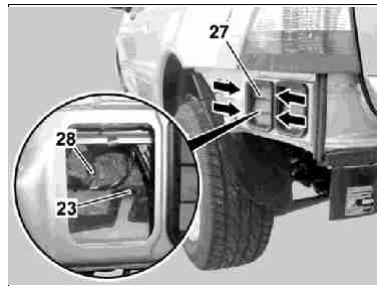
AN31.10- P- 8080AA	Retrofit trailer hitch	5.11.99
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MODEL 163.113 /136 / 154 /172 #A as of 145273,
 163.113 / 136 /154 / 172 #X as of 708319,
 163.128 / 175 except CODE (U49) Styling package

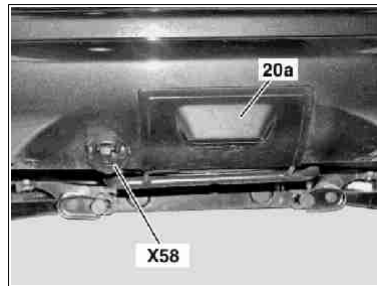
- 1 Cable harness for trailer hitch
- 3 Supporting plate, detachable ball neck
- 4 Bolts
- 12 Detachable ball neck
- 12a Mount
- X52 Trailer hitch connector



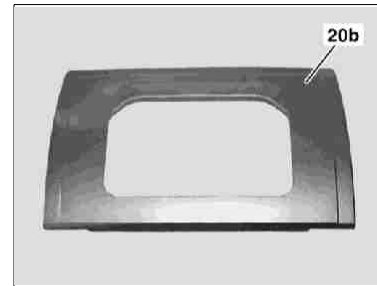
P31.10- 2086- 06



P88.30- 2186- 01



P31.10- 2184- 01



P31.10- 2185- 01

- 23 Rubber grommet
- 27 Ventilation flap
- 28 Vehicle cable harness

- 20a Cover for detachable trailer hitch
- X58 Trailer hitch socket

- 20b Cover for detachable trailer hitch with recess

Operation no. of operation texts or standard texts and flat rates

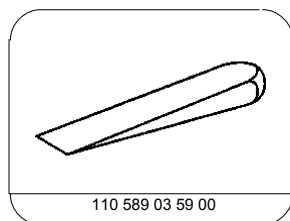
Category	Op. no.	Operation text
P	318100	RETROFITTING TRAILER HITCH WITH ELECTRICS

<input type="checkbox"/>	Removal		
<input type="checkbox"/>	Notes regarding installation of trailer hitch	<input type="checkbox"/> Model 163	AH31.10-P-1000-02A
1	Disconnect ground cable at battery	<input type="checkbox"/> To prevent unintended contact, insulate the ground lead cable lug.	
f	Disconnecting and connecting ground cable on battery		AR54.10-P-0003A
2	Remove trim on right- hand C- pillar		
f	Remove/ install paneling on C- pillar		AR68.30-P-4490GH
<input type="checkbox"/> Danger!	Risk of fatal accident from vehicle slipping or toppling off the lift platform	Align vehicle between the columns of lifting platform and position the four support plates below the support strong points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
3	Place the vehicle on lifting platform		
f	Jacking up and supporting vehicle		AR00.60-P-1000GH
4	Remove spare wheel and spare wheel holder	<input type="checkbox"/> Only for vehicles without a code (849), spare wheel holder.	
5	Removing rear bumper	<input type="checkbox"/> If a bumper is installed on a vehicle at rear which does not correspond to the model year 2000, it is necessary to replace it with a rear bumper with code 800 (model year 2000).	

f	Remove and install rear bumper	<input type="checkbox"/> Up to VIN A289564, X754619 without code (849), spare wheel holder.	AR88.20-P-2200GH
f	Remove and install rear bumper	<input type="checkbox"/> Up to VIN A289564, X754619 with code (849), spare wheel holder.	AR88.20-P-2200GI
f	Remove and install rear bumper	<input type="checkbox"/> As of VIN A289565, X754620.	AR88.20-P-2200GK
6	Remove rear bumper bracket	<input type="checkbox"/> As of VIN A289565, X754620.	
7	Remove left rear vent flap (27)	<input type="checkbox"/> Danger of breaking retaining lugs. <input type="checkbox"/> Loosen side vent flap (arrows). <input type="checkbox"/>	*110589035900
8	Detach connector for trailer hitch from vehicle cable harness (28)		
9	Remove rubber grommet (23)		
	Convert		
10	Machine bumper	<input type="checkbox"/> Up to VIN A289564, X754619.	AZ88.30-P-0001-01B
E	Machine bumper	<input type="checkbox"/> Nut, connector panel to socket bracket to VIN A289564, X754619.	Up *BA31.11-P-1005-01B
E	Machine bumper	<input type="checkbox"/> As of VIN A289565, X754620.	AZ88.30-P-0001-01F
<input type="checkbox"/>	Install		
11	Retrofit mechanical detachable parts	Vehicles without code (849), spare wheel holder: <input type="checkbox"/> Bolt for supporting plate to rear- end carrier <input type="checkbox"/> Bolt for socket holder to rear- end carrier <input type="checkbox"/> Collar nut for reinforcement on frame longitudinal member <input type="checkbox"/> Collar nut for reinforcement on rear- end carrier Vehicles with code (849), spare wheel holder: <input type="checkbox"/> Bolt for socket holder to rear- end carrier <input type="checkbox"/> Bolt for supporting plate to rear- end carrier	AN31.11-P-8080-05A *BA31.11-P-1001-01B *BA31.11-P-1002-01B *BA31.11-P-1003-01B *BA31.11-P-1004-01B AN31.11-P-8080-05AB *BA31.11-P-1002-01B *BA31.11-P-1001-01B
12	Print document "Trailer hitch, confirmation"	* For Germany only <input type="checkbox"/> The "Trailer hitch, confirmation" document must be printed out and presented when handing over attachments. For do- it- yourself installers, the detailed installation instructions must be printed out and given to the customer. These must be submitted by the customer on final inspection.	OF31.10-P-1000-01J
13	Retrofit wiring harness.		AN31.19-P-8080-03A
14	Retrofit mounting for detachable ball neck		AN31.11-P-8080-03AA
15	Fit remaining parts to vehicle		
16	Install cover (20a) in recess on bumper		
17	Store the covers with recess (20b) in the right-hand side compartment with the bracket of the detachable ball neck	<input type="checkbox"/> Only if fitted.	
<input type="checkbox"/>	Check		
18	Carry out function check on trailer hitch socket (X58)		

Trailer hitch mechanical system

Number	Designation	Model Series 163
BA31.11-P-1001-01B	Bolt, supporting plate to rear end member	NM 160
BA31.11-P-1002-01B	Bolt, socket holder to rear end member	NM 6
BA31.11-P-1003-01B	Collared nut, reinforcement to frame side member	NM 49
BA31.11-P-1004-01B	Collared nut, reinforcement to rear- panel carrier	NM 49
BA31.11-P-1005-01B	Nut, connector panel to socket bracket	NM 4



Assembly wedge

Parts ordering notes

Part no.	Designation	Quantity
KG99 (see EPC)	Trailer hitch parts kit for vehicles without outboard spare wheel holder (code 849)	1
KG99 (see EPC)	Trailer hitch parts kit for vehicles with outboard spare wheel holder (code 849)	1
KG88 (see EPC)	Cover without hole (order in color of bumper)	1
KG88 (see EPC)	Cover with hole (order in bumper color)	1
KG88 (see EPC)	Rear bumper with code 800 (model year 2000), order according to color code (only if required)	1



The body sealing compound and underbody sealant must be removed from all the body mounting points of the trailer coupling. The mounting points should then be cleaned with a commercially available cleaning agent. Apply anticorrosion paint to bare-metal areas of the body.

Trailer couplings are approved safety-related parts. They must be installed on vehicles by a specialist. Trailer couplings which have been damaged in an accident, by bottoming or by an impact from behind must be replaced; subsequent modifications such as bending, machining, welding, etc. are not permitted.

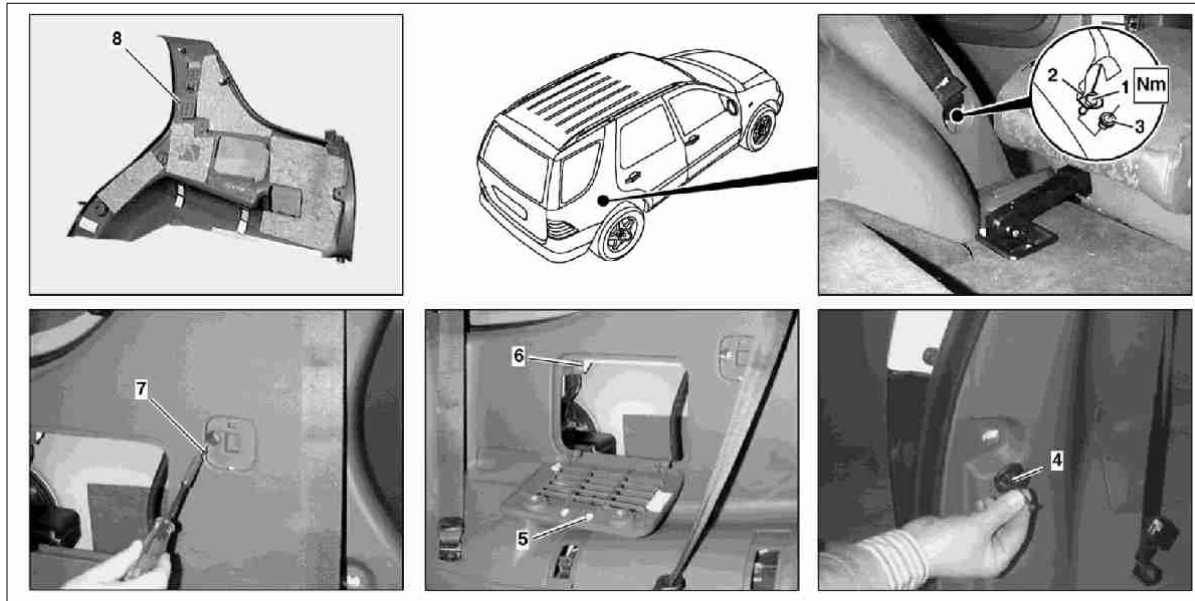
The coupling ball must have a ball diameter of at least 49 mm at all points measured with a caliper. If this is not the case the coupling ball must be replaced for a new one. The ball must be greased before use to reduce wear.

The micro-encapsulated locking bolts and self-locking nuts may only be used once. If parts of the trailer coupling are removed, new micro-encapsulated bolts and self-locking nuts must be used when reinstalling these parts.

On trailers with an anti-swerve device it is not necessary to grease the ball (refer to trailer instructions). Please inform the customer of this.

Advise the customer to read the "Trailer coupling" and "Towing a trailer" sections in the vehicle owner's manual.

AR68.30- P- 4490GH	Remove/ install paneling on C- pillar	3.3.97
MODEL 163.113 /128 / 136 /154 / 157 /172 / 174 /175		



P68.30- 0506- 09

- | | | |
|--------------------|-----------|------------|
| 1 Screw | 4 Bracket | 7 Screw |
| 2 Belt end fitting | 5 Cover | 8 Paneling |
| 3 Distance sleeve | 6 Screw | |

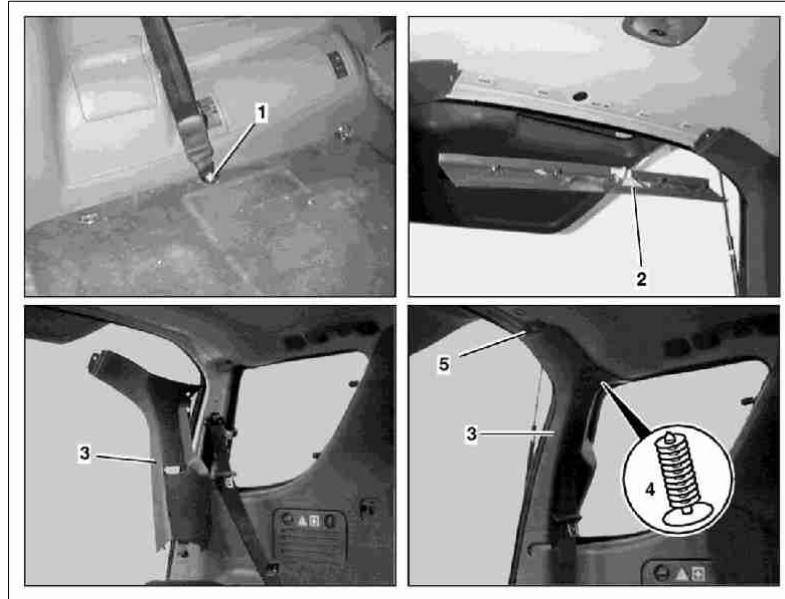
<input type="checkbox"/> <input type="checkbox"/>	Remove, Install		
1.1	Remove third seat row	<input type="checkbox"/> Only with 3rd seat row, code 847. See operating instructions.	
2	Remove safety net	<input type="checkbox"/> See Operating Instructions	
3.1	Remove spare wheel cover	<input type="checkbox"/> Only model 163.174.	AR68.30-P-4610GH
4	Remove rear roof frame paneling	<input type="checkbox"/> Do not unscrew screw for belt end fitting if present on 23rd seat row (omit step 1), if present. Loosen D- pillar paneling from C- pillar and guide to bottom along seat belt. <input type="checkbox"/> Long wedge	AR68.30-P-4470GH *115589035900
5	Remove door sill molding in load compartment		AR68.30-P-4100GI
6	Fold rear seat forward	<input type="checkbox"/> See Operating Instructions	
7.1	Remove SRS label and unscrew screw behind	<input type="checkbox"/> Risk of fracturing! <input type="checkbox"/> Only as of VIN A145273, X708319.	
8	Remove screw (1) and spacer sleeve (3) from belt end fitting (2) of rear seat belt	<input type="checkbox"/>	*BA91.40-P-1001-01D
9	Remove brackets (4) (2 each.) from lining (8)		
10	Open cover (5) and remove		
11	Unscrew screw (6)		
12	Unscrew screw (7)		
13	Remove lining (8)	<input type="checkbox"/> As of VIN A145273, X708319 up to VIN A289564, X754619: two clips on inside of paneling in roof area. <input type="checkbox"/> Installation: Check clips and replace if necessary. Properly insert height adjuster for seat belt into paneling. Check function Install paneling in edge molding of floor covering <input type="checkbox"/> Long wedge	*115589035900
14	Pull seat belt out of lining		
15	Remove lead from 12V socket	<input type="checkbox"/> At right paneling	
16	Install in the reverse order		

Seat belts/ belt tensioners

Number	Designation	Model 163 up to 08/ 99	Model 163 as of 09/ 99
BA91.40- P- 1001- 01D	Screw on belt end fitting	Nm 35	35

AR68.30- P- 4470GH	Remove/ install rear roof frame paneling	24.2.97
MODEL 163.113 /128 / 136 /154 / 157 /172 / 174 /175		

- 1 Belt end fitting in 3rd seat row
- 2 Center paneling of roof frame
- 3 Side paneling of roof frame
- 4 Expanding anchor
- 5 Screw

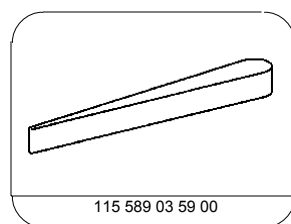


P68.30- 0507- 06

<input type="checkbox"/> <input type="checkbox"/>	Remove, Install		
1.1	Remove belt end fitting at bottom of 3rd seat row (1)	Only with 3rd seat row, code 847.	
2	Unclip center roof frame covering (2)	<input type="checkbox"/> Installation: Install paneling in door rubber seal. <input type="checkbox"/> Long wedge	*BA91.40-P-1001-01D *115589035900
3.1	Remove expanding anchor (4) from side roof frame covering (3)	<input type="checkbox"/> up to 31.08.01 Installation: Replace expanding anchor.	
3.2	Remove screw (5) from side roof frame paneling (3)		
4.1	Unclip side roof frame paneling in upper outer corner	<input type="checkbox"/> As of 01.09.01	
4.2	Remove side roof frame paneling (3) upward	<input type="checkbox"/> Only on 3rd seat row, code 847: remove seatbelt and remove paneling <input type="checkbox"/> Installation: Install paneling in door rubber seal.	
5.1	Disconnect connector from loudspeaker	<input type="checkbox"/> As of 01.09.01 and with sound system, code 810.	
6	Install in the reverse order		

Seat belts/ belt tensioners

Number	Designation		Model 163 up to 08/ 99	Model 163 as of 09/ 99
BA91.40- P- 1001- 01D	Screw on belt end fitting	Nm	35	35



115 589 03 59 00

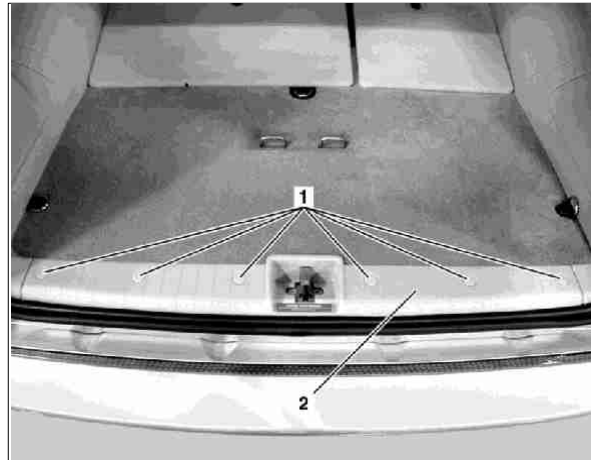
Assembly wedge

AR68.30- P- 4100GI	Remove/ install door sill molding	20.4.01
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MODEL 163.113 /128 / 136 /154 / 157 /172 / 174 /175

Door sill molding in cargo space

- 1 Caps
- 2 Door sill molding

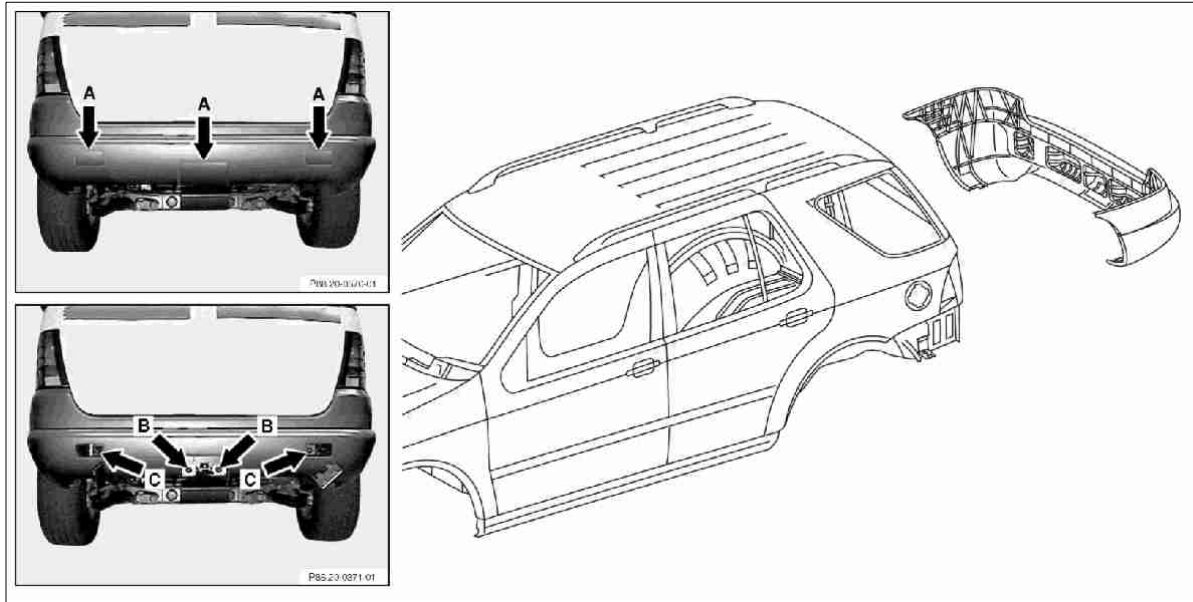


P68.30- 2393- 11

<input type="checkbox"/> <input type="checkbox"/>	Remove/ install		
1	Remove cover caps (1)	<input type="checkbox"/> Do not scratch door sill molding.	
2	Remove screws below caps		
3	Remove door sill molding (2)	<input type="checkbox"/> Installation: Ensure that sealing rubber is positioned correctly.	
4.1	Disconnect connector from electronic compass	<input type="checkbox"/> Only as of 01.09.00 and with code (245), trip computer.	
5	Install in the reverse order		

AR88.20- P- 2200GH	Remove/ install rear bumper	6.4.99
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MODEL 163.113 #A up to 289564,
 163.154 #X up to 754619,
 163.154 #A up to 289564,
 163.136 / 172



A Covers

B Nuts

C Screws

P88.20- 0372- 09

<input type="checkbox"/>	Remove/ install		
1.1	Disconnect antenna connector of E- call emergency call system	<input type="checkbox"/> Only with emergency call system E- Call, code 349. Connector is located behind side flap of right C-pillar paneling at jack mounting point.	
2	Remove covers (A)	<input type="checkbox"/> Do not damage paint. Do not break off clips. <input type="checkbox"/> Installation wedge	*115589035900
3	Unscrew mounting nuts (B) from bumper	<input type="checkbox"/>	*BA88.20-P-1004-01B
4	Unscrew screws (C)	<input type="checkbox"/>	*BA88.20-P-1005-01B
5.1	Remove nut from rear mud guard	<input type="checkbox"/> Only if present <input type="checkbox"/>	*BA88.30-P-1004-01A
6	Remove bumper toward rear	<input type="checkbox"/> Do not damage paint. <input type="checkbox"/> Installation: Align bumper at tailgate and at taillamps	
7.1	Remove rubber seal for E- call emergency call system antenna from body at right	<input type="checkbox"/> Only with emergency call system E- Call, code 349.	
8	Install in the reverse order		

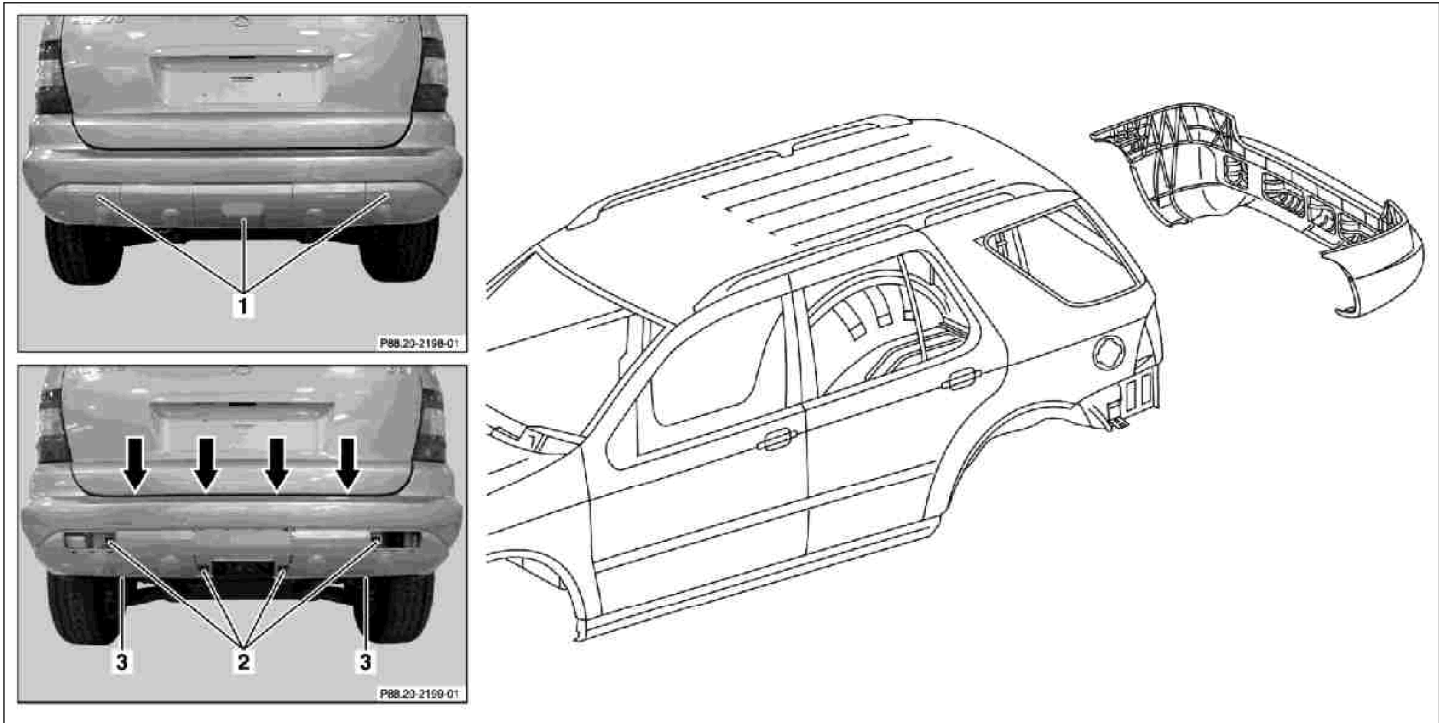
Bumper

Number	Designation	Nm	Model 163
BA88.20- P- 1004- 01B	Nut, rear bumper to frame	8	
BA88.20- P- 1005- 01B	Screws, rear bumper on frame	8	

Detachable body components, underdrive guard

Number	Designation	Model 163 up to 31.8.01	Model 163 as of 1.9.01
BA88.30- P- 1004- 01A	Nut for retaining strap on mud guard on vehicle underbody	Nm 6	6

MODEL 163.113 #A as of 289565,
 163.113 #X as of 754620,
 163.154 #A as of 289565,
 163.128 /157 /175



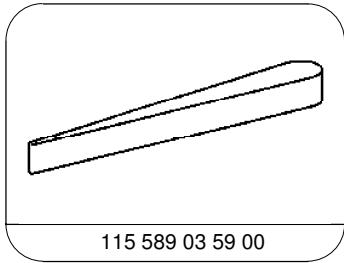
P88.20-2200-09

☒ ☒	Remove/Install		
1.1	Disconnect antenna connector of E-call emergency call system	<p>i Only with emergency call system E-Call, code 349. The connector is located behind side flap on right C-pillar paneling at vehicle jacking point.</p>	
2	Remove panelings (1)	<p>i Do not damage paint. Do not break off clips. ☒ Installation wedge</p>	*115589035900
3	Remove screws (2)	Nm	*BA88.20-P-1008-01B
4.1	Remove nut for dirt trap retaining strap from vehicle underbody	<p>i Only if present Nm</p>	*BA88.30-P-1004-01A
5	Pull bumper toward rear and remove	<p>i Do not damage paint/wiring harness. i Pull directly over clips (arrows) and detach from bracket. i Installation: Align bumper at tailgate and at taillamps</p>	
6.1	Remove rubber seal for E-call emergency call system antenna from body at right	<p>i Only with emergency call system E-Call, code 349.</p>	
7.1	Detach connector from Parktronic system	<p>i Only with Parktronic system (PTS), code 220a. i Remove left rubber seal from body.</p>	
8	Install in the reverse order		

Number	Designation	Model 163
BA88.20-P-1008-01B	Screw for rear bumper on mount	Nm 8

Nm Detachable body components, underride guard

Number	Designation	Model 163 as of 1.9.01
BA88.30-P-1004-01A	Nut for retaining strap on mud guard on vehicle underbody	Nm 6



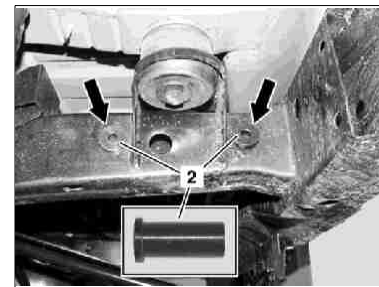
Long wedge

AN31.11- P- 8080- 05A	Retrofit mechanical detachable parts	Models 163.113 / 128 / 136 / 154 / 172 / 175 except code (849) spare wheel holder/ spare wheel	
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□ Trailer hitch mechanical system

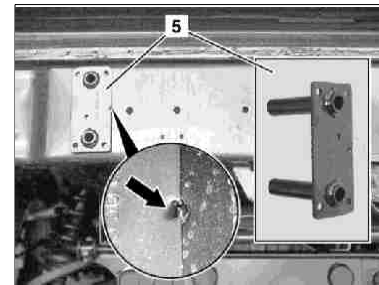
Number	Designation	Model Series 163
BA31.11- P- 1001- 01B	Bolt, supporting plate to rear end member	NM 160
BA31.11- P- 1002- 01B	Bolt, socket holder to rear end member	NM 6
BA31.11- P- 1003- 01B	Collared nut, reinforcement to frame side member	NM 49
BA31.11- P- 1004- 01B	Collar nut, reinforcement on rear end member	NM 49
BA31.11- P- 1005- 01B	Nut, connector panel to socket bracket	NM 4

- 1 Insert guide sleeve (2) into existing drill hole in side rail (see arrows) on the left and right-hand sides of the vehicle.



P31.10- 2087- 01

- 2 Insert spacer (5) on left and right into existing drill hole at rear end member. The lug faces the vehicle center (see arrow in magnified section).



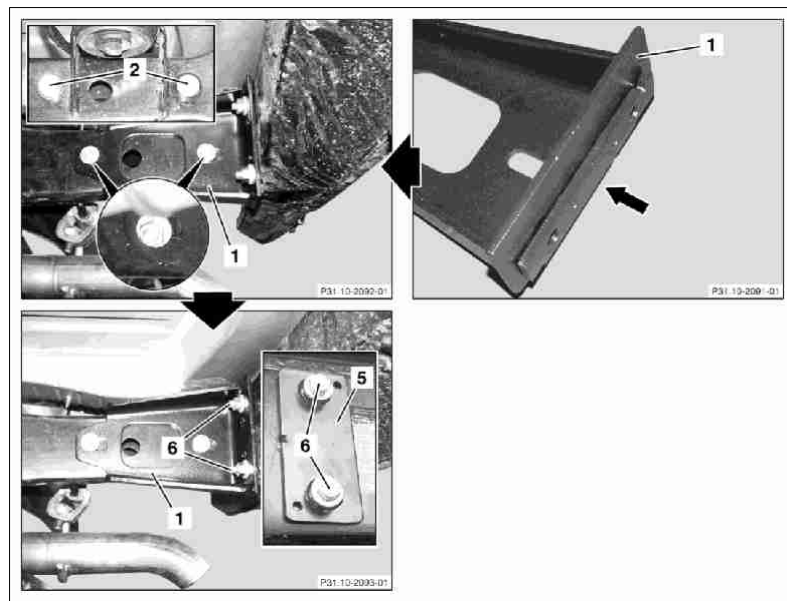
P31.10- 2088- 01

- 3 Position reinforcement (1) with spacer (see arrow) in recess at rear end member.

- 4 Guide two bolts M10x90 mm from the outside through the guide sleeves (2) in the side rail and screw finger-tight to the reinforcement (1) with micro-encapsulated collared nuts .

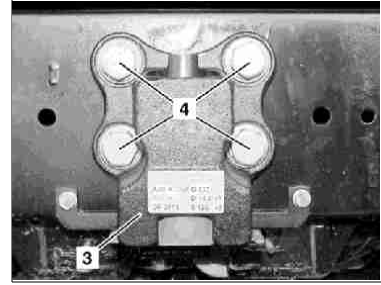
- 5 Guide two bolts (6) M10x130 mm from outside through the spacer (5) in the rear end member and tighten with micro-encapsulated collared nuts.

- 6 Align reinforcement (1) and tighten all micro-encapsulated collared nuts □ .



P31.10- 2090- 06

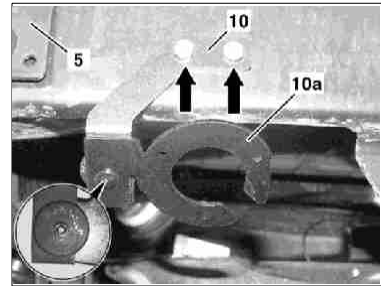
- 7 Insert micro- encapsulated bolts (4) into existing holes in rear end member and pre- tap two to three turns.
 - 8 Fasten supporting plate (3) for detachable ball neck to rear end member with four micro- encapsulated bolts (4) □ .
- Only up to VIN A289564, X754619 except code (U49), Styling package.
- 9 Fasten socket bracket (10) to rear end member next to left spacer (5) with two self- tapping bolts M6x16 mm (arrows) in the existing holes □ .



P31.10- 2094- 01

- 10 Fasten connector panel (10a) finger- tight to socket bracket (10) with washer and nut (see detail) □ .
- The other socket bracket and the connector panel from the parts kit are not installed.

Illustrated with socket bracket as of VIN A145273, X708319

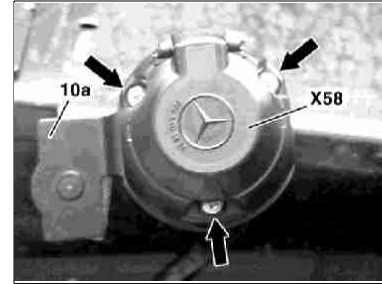


P31.10- 2156- 01

AN31.19- P- 8080- 03A	Connect wiring harness	Model 163.113/ 128/ 174/ 175	136/ 154/ 172/	
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Up to VIN A289564, X754619.

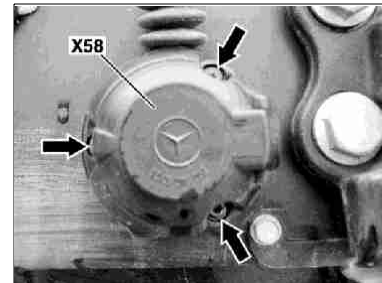
- 1.1 Secure socket (X58) to connector panel (10a) with three sheet metal screws (arrows) 4.8x32 mm.



P31.10- 2096- 01

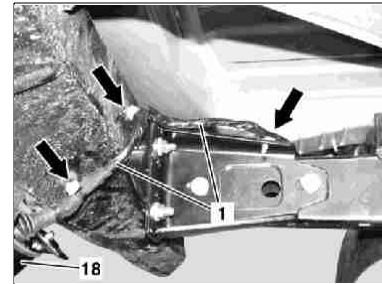
As of VIN A289565, X754620.

- 1.2 Fasten socket (X58) to rear end member using three screws (arrows).



P31.10- 2612- 01

- 2 Install trailer hitch wiring harness (1) under rear end member to the left side rail.
- 3 Secure trailer hitch wiring harness (1) in holes provided (see arrows) using omega clips.
- The omega clips are integrated in the wiring harness. As of VIN A289565, X754620: only 2 omega clips on the outside of the rear end member.



P31.10- 2097- 01

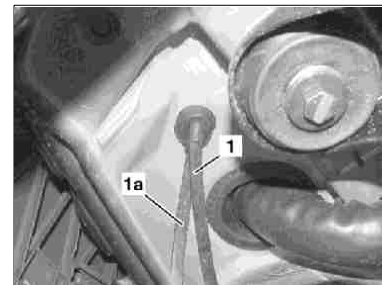
- 4 Remove existing grommet at left- hand side of vehicle (see arrow).
- If the grommet is used for the external spare tire wiring harness (1a), the grommet must be disconnected from the existing wiring harness.
- 5 Guide trailer hitch wiring harness (1) through opening in left interior and close with grommet.



P31.10- 2098- 01

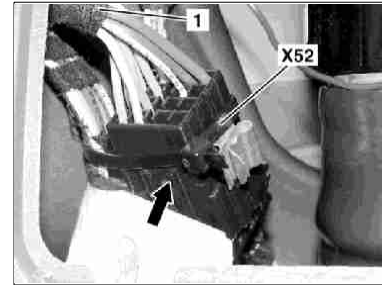
Only for vehicles with code (849), spare wheel holder.

- 6 Disconnect spare wheel holder wiring harness (1a) at connector in left interior and guide outwards.
- 7 Guide spare wheel holder wiring harness (1a) through second grommet hole at trailer hitch wiring harness (1).



P31.10- 2099- 01

- 8 Connect trailer hitch wiring harness connector (1) to free coupling of trailer hitch connector (X52).
- Access via removed ventilation flap, left rear.
- 9 Fasten trailer hitch wiring harness (1) and trailer hitch connector (X52) using a cable strap (see arrow).



P31.10- 2103- 01

- 9 Install 25A fuse in slot 18 of fuse and relay module (F1).
- The customer must be made aware that any external consumers present (e.g. in a caravan) can discharge the vehicle battery when the vehicle is stopped if fuse f18 in the fuse and relay module (F1) is in place.



P31.10- 2101- 01



DTB

Date: September 17, 2001
Order No.: T-B-31.19/04
Supersedes:
Group: 31

**SUBJECT: Models 163, All Model Years
Installing Trailer Hitch Wiring**

After completing the installation instructions included in the trailer hitch kit, please insure that a 25-amp fuse is installed in position F18 in the fuse box (F1).

Parts Information

Qty.	Part Name	Part Number
1	Fuse, 25 amp	N072581-000307

This bulletin has been created and maintained in accordance with MBUSA-SLP 5.1, Document and Data Control, and MBUSA-SLP 16.1, Control of Quality Records.