

Document title Retrofit trailer hitch

Document number an3110p8080gza

MODEL 164.1 except CODE (494) USA version

MODEL 164.8

up to model year 2009
except CODE (494) USA version

Shown on model 164.1

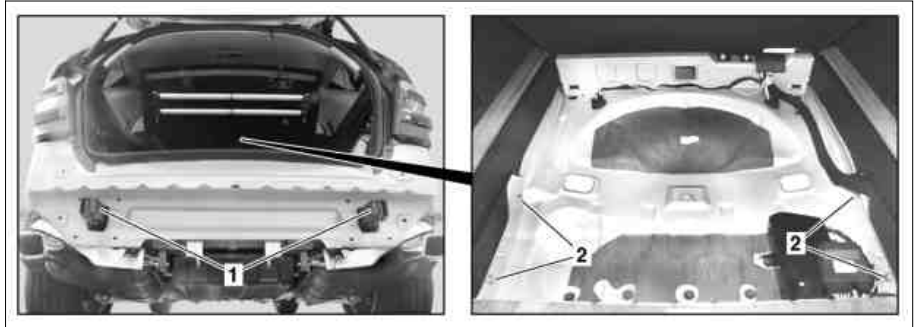
3 Trailer hitch



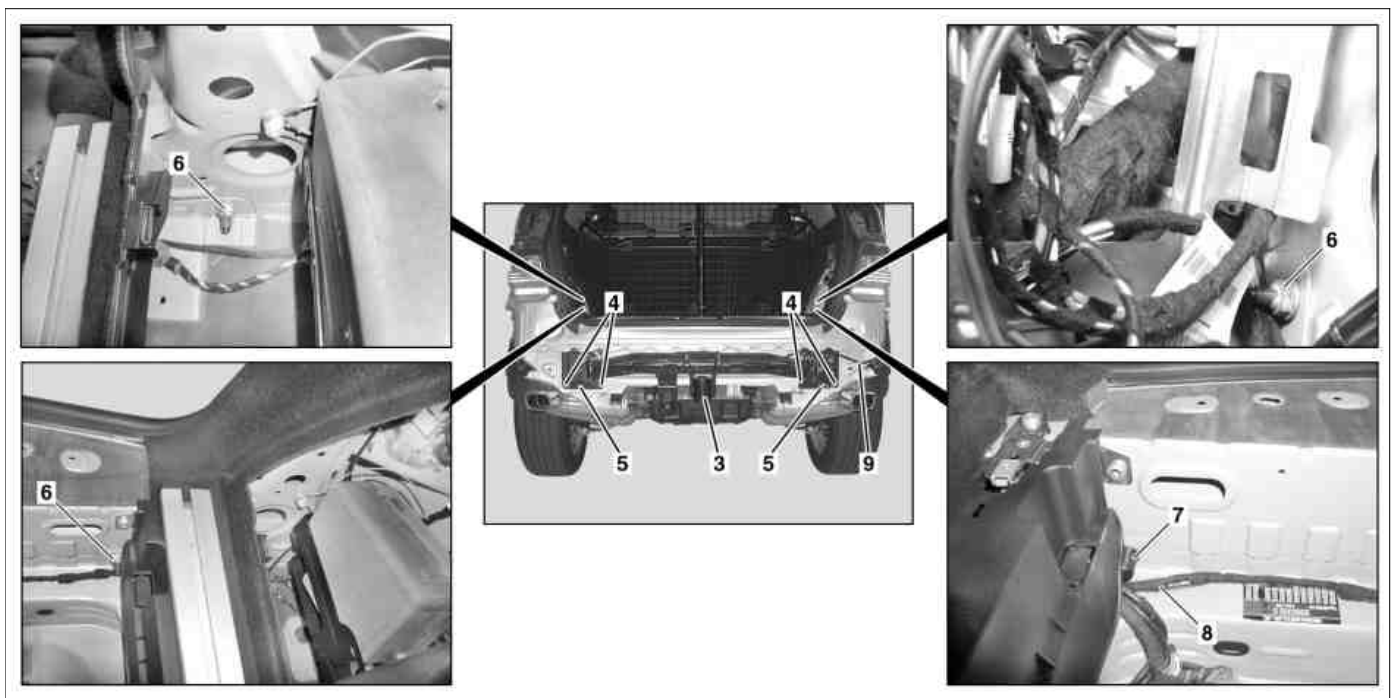
P31.10-2889-06

Shown on model 164.1

- 1 Reinforcement arms
- 2 Bolts



P31.10-2845-04



P31.10-3023-09

Shown on model 164.1

3 Trailer hitch
 4 Bolts
 5 Bolts

6 Nuts
 7 Cap

8 Wiring harness
 9 Trailer hitch wiring harness

Modification notes

21.9.10	Replace rear SAM control unit information added	Operation steps 3 and 13	
6.10.10	Code information revised	Operation steps 3 and 13	
17.1.11	Documentation retrofitted equipment using vehicle documentation (VeDoc) added	Step 20	

	Remove/install		
1	Remove electric fan and replace by a new one with higher output	<p>i Only vehicles with diesel engine: model 164.120 /122 as of 02/2006, model 164.822.</p> <p>i Dispose of electric fan which has been removed.</p>	AR20.40-P-5000GZB
2	Install in the reverse order		
	Remove		
3	Remove rear SAM control unit	<p>i Only for vehicles without one of the codes listed below:</p> <ul style="list-style-type: none"> - Code 848 (Power side vent windows) - Code (849) Spare wheel holder/spare wheel <p>For all other vehicles, only release the rear SAM control unit.</p>	AR54.21-P-1269GZ
4	Remove carrier for rear bumper	<p>i Dispose of carrier for rear bumper and rear SAM control unit</p>	AR88.20-P-2250GZ
	Modify		
5	Add bumper cutout		AN31.11-P-8080-02GZ
	Install		
6	Fasten stiffening arms (1) using bolts (2)	<p>Nm Bolt, reinforcement arm to vehicle floor.</p>	*BA31.11-P-1001-01G
7	Fasten trailer hitch (3) using bolts (4, 5) and nuts (6).	<p>i Connect cap (7) to nut next to the wiring harness (8).</p> <p>Nm Screw/nut, trailer hitch to crossmember.</p> <p>Nm Bolt, trailer hitch to reinforcement arm.</p>	<p>*BA31.11-P-1002-01G</p> <p>*BA31.11-P-1004-01G</p>
8.1	Connect wiring harness	Model 164.1 up to model year 2009, model 164.8	AN31.19-P-8080-03GZA
8.2	Connect wiring harness	Model 164.1 as of model year 2010	AN31.19-P-8080-03GZB
9	Install right-hand ventilation		
10	Install heat shields		
11	Fasten rear muffler	<p>Nm Engine 113, 156</p> <p>Nm Engine 113, 156</p> <p>Nm Engine 272, 273</p> <p>Nm Engine 272, 273</p> <p>Nm Engine 629, 642</p> <p>Nm Engine 629, 642</p>	<p>*BA49.10-P-1007-01S</p> <p>*BA49.10-P-1008-01S</p> <p>*BA49.10-P-1007-01W</p> <p>*BA49.10-P-1008-01W</p> <p>*BA49.10-P-1008-01U</p> <p>*BA49.10-P-1011-01U</p>
12	Install bracket for rear SAM control unit	<p>i Route wiring harness for trailer hitch (9) under the bracket.</p>	
13	Install new rear SAM control unit	<p>i Only for vehicles without one of the codes listed below:</p> <ul style="list-style-type: none"> - Code 848 (Power side vent windows) - Code (849) Spare wheel holder/spare wheel <p>For all other vehicles, only tighten the rear SAM control unit.</p> <p>i Insert the corresponding plug of the wiring harness for trailer hitch (9) into the rear SAM control unit.</p>	AR54.21-P-1269GZ
14	Install trim for spare tire well		AR68.30-P-4620GZ
15	Install rear bumper	<p>i Install impact absorber between the shock absorber and trailer hitch crossmember (3).</p> <p>i On model 164.8 with code (U89) Optical off-road package: Replace underride guard.</p>	AR88.20-P-2200GZ
16	Connect STAR DIAGNOSIS		AD00.00-P-2000-04A
17	Enter special equipment in the vehicle data card and in the vehicle's online data card	<p>i Enter code (550) Trailer hitch.</p> <p style="text-align: center;">↓</p>	

		Initial startup of retrofits and modifications	AN00.01-P-1001-01V
18	Code rear SAM control unit and CGW control unit with STAR DIAGNOSIS	i Set the coding in the menu "Detect trailer" from "NOT AVAILABLE" to "AVAILABLE".	
19	Close STAR DIAGNOSIS		AD00.00-P-2000-04A
20	Document retrofitted equipment using vehicle documentation (VeDoc)	i Attach "Trailer hitch retrofitted as per AN31.10-P-8080GZA" note under field organization texts for design group 31.	
21	Perform function check on trailer hitch socket		

Nm Trailer hitch mechanical components

Number	Designation		Model 164.1/8 ORIS trailer hitch (standard)
BA31.11-P-1001-01G	Bolt, reinforcement arm to vehicle floor	Nm	66
BA31.11-P-1002-01G	Bolt/nut, trailer hitch to crossmember.	Nm	66
BA31.11-P-1004-01G	Bolt, trailer hitch to reinforcement arm	Nm	120
BA31.11-P-1005-01G	Bolt/nut, rigid ball neck to trailer hitch	Nm	-

Nm Trailer hitch mechanical components

Number	Designation		Model 164.1/8 WESTFALIA trailer hitch (accessories)
BA31.11-P-1001-01G	Bolt, reinforcement arm to vehicle floor	Nm	55
BA31.11-P-1002-01G	Bolt/nut, trailer hitch to crossmember.	Nm	55
BA31.11-P-1004-01G	Bolt, trailer hitch to reinforcement arm	Nm	95
BA31.11-P-1005-01G	Bolt/nut, rigid ball neck to trailer hitch	Nm	95

Nm Exhaust system

Number	Designation		Engine 113.964 in model 164.1	Engine 156.980 in model 164.1
BA49.10-P-1007-01S	Bolt, exhaust rubber mount bracket (inner) to body	Nm	20	20
BA49.10-P-1008-01S	Bolt, exhaust rubber mount bracket (outer) to bumper bracket	Nm	12	12

Nm Exhaust system

Number	Designation	Engine 272, 273 in model 164
BA49.10-P-1007-01W	Bolt, exhaust rubber mount bracket (inner) to body	Nm 18
BA49.10-P-1008-01W	Bolt, exhaust rubber mount bracket (outer) to bumper bracket	Nm 18

Nm Exhaust system

Number	Designation	Engine 642 in model 164 without Code U42	Engine 629.912 in model 164
BA49.10-P-1008-01U	Bolt, exhaust rubber mount bracket (outer) to bumper bracket	Nm 12	12
BA49.10-P-1011-01U	Bolt, exhaust rubber mount bracket (inner) to body	Nm 20	20

Parts ordering notes

Part no.	Designation	Quantity
KG99 (see EPC)	Trailer hitch parts kit	1
164 885 05 22	Rear bumper underride guard	As required