AR33.10-	P-0100P	Remove/install front axle	12.11.09
MODEL	203 (except 203	.081 /084 /087 /092 /281 /284 /287 /292)	



P33.10-2070-09

Modification notes

29.11.07	Value changed: bolt, retaining plate of oil line to rack-and-	*BA46.20-P-1001-01F
	pinion steering	

XX	Remove/install		
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
⚠ Danger!	Risk of injury to skin or eyes caused by hydraulic fluid spraying out under high pressure. Risk of poisoning caused by swallowing hydraulic fluid	Depressurize the hydraulic system completely before starting any work on the system. Wear protective clothing and safety glasses.	AS00.00-Z-0013-01A
۲	If there is visible damage, e.g. crack formation or deformation of the front axle carrier, these parts must be replaced		
•	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
1.1	Deactivate easy entry/exit function	 Only vehicles with memory package (driver seat, steering column, mirrors) code 275. Otherwise the driver seat and steering wheel move into a different position if the driver door is opened or closed for example. Damage to the upper frame can occur when the S holding device is installed. It is switched off using the buttons on the steering wheel in the "Comfort" menu on the multifunction display, see vehicle owner's manual. 	
2	Extend the adjustable steering column fully or push out	i Necessary for separating steering coupling.	
3	Extract fluid out of the power steering pump's fluid reservoir	Hand pump	*210589007100
4	Mount engine carrier bracket, raise engine	Engine carrier arm	AR33.10-P-0100-01P
5	Raise vehicle		AR00.60-P-1000P

6 F AP	Remove the front wheels Remove/install wheels, rotate if necessary		AP40.10-P-4050Z
7	Remove rear bolts of supporting struts		
3	Remove engine mount bolts	Nm Engine 111	*BA22.10-P-1008-01A
	, , , , , , , , , , , , , , , , , , ,	Mm Engine 112.912 /946/961	*BA22.10-P-1001-01R
			*BA22.10-P-1006-01O
		Mm Engine 271	
		Engine 272	*BA22.10-P-1001-01S
		Mm Engines 611, 612, 642, 646	*BA22.10-P-1001-01D
1	Detach heat shield from front axle carrier (1)		
0	Move front wheels to straight-ahead position	i To do this, swivel the sun visor to one	
	and secure steering wheel.	side and insert the \mathfrak{G} retainer.	
		Difference The steering wheel must not be turned	
		when the steering coupling is detached,	
		otherwise the clock spring contact will be	
		destroyed.	*100500010100
		Holding device	*129589012100
1	Carefully pull steering coupling out of the control valve of the rack-and-pinion steering	Do not use force (hammer, strong lever	
	(predetermined fracture point on control valve)	action) since the lower steering shaft is	
		sensitive to lateral impacts.	
		i Installation: ↓	
		Turn rack-and-pinion steering to center	AR46.20-P-0600-01P
		position and mount steering coupling	*DA40.10.D.1001.01E
		Nm	*BA46.10-P-1001-01E
2	Detach retaining plate of oil lines on rack-and- pinion steering and pull out oil lines	i Seal off line connections using plugs.	
	pinion steering and pun out on intes	Set of stop plugs	*129589009100
			129309009100
		i Installation: replace O-rings.	
		Nm	*BA46.20-P-1001-01F
\Lambda Danger!	Risk of poisoning caused by swallowing	Only pour brake fluid into suitable and	AS42.50-Z-0001-01A
	brake fluid. Risk of injury caused by brake	appropriately marked containers. Wear	
	fluid coming into contact with skin and eyes.	protective clothing and eye protection when handling brake fluid.	
13	Unscrew brake lines on left and right of brake	Seal off line terminals immediately with $$	
15	hose and seal openings	stop plugs. The brake fluid reservoir must not	
		run completely empty.	
٩	Brake fluid notes		AH42.50-P-0001-01A
(4)	Notes on installing brake hoses		AH42.10-P-9406-01A
	Notes on motaling brake hoses		
		Box wrench bit	*000589750300
			*129589009100
		$ \mathcal{G} $ Set of stop plugs	
		 Set of stop plugs Installation: The brake hoses must not be 	
		() Installation: The brake hoses must not be twisted after being tightened (danger of	
		() Installation: The brake hoses must not be twisted after being tightened (danger of cracking).	
		() Installation: The brake hoses must not be twisted after being tightened (danger of	*BA42.10-P-1001-04A
14	Detach left front brake pad contact sensor	() Installation: The brake hoses must not be twisted after being tightened (danger of cracking).	*BA42.10-P-1001-04A
14	(S10/1) from connector for brake pad wear	() Installation: The brake hoses must not be twisted after being tightened (danger of cracking).	*BA42.10-P-1001-04A
	(S10/1) from connector for brake pad wear contact sensor	() Installation: The brake hoses must not be twisted after being tightened (danger of cracking).	
	(S10/1) from connector for brake pad wear	() Installation: The brake hoses must not be twisted after being tightened (danger of cracking).	*BA42.10-P-1001-04A AH42.10-P-0003-01A
٤	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors	() Installation: The brake hoses must not be twisted after being tightened (danger of cracking).	
) 15	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Im 	AH42.10-P-0003-01A
1 5 16	 (S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) 	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Im 	AH42.10-P-0003-01A *BA42.10-P-1003-10C
b 15 16	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Im 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P
b 5 6	 (S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake 	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). №m 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P
 Description 	 (S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields 	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Im 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100
 Description 	 (S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake 	Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Imm Imm Imm Imm	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A
 Description 	 (S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields 	Installation: The brake hoses must not be twisted after being tightened (danger of cracking). ▼m	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100
))<	 (S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields 	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Imm Imm Imm Passenger car transmission plate, 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100
15 16 17 18	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields Support front subframe (1) Detach suspension strut (11) on left and right	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Imm Guard plate Passenger car transmission plate, refer to GOTIS http://gotis.aftersales.mercedes-benz.com 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100
))<	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields Support front subframe (1)	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Imm Guard plate Passenger car transmission plate, refer to GOTIS http://gotis.aftersales.mercedes-benz.com Imm 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100 AR33.10-P-0100-03P
 (a) (b) (c) (c)	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields Support front subframe (1) Detach suspension strut (11) on left and right	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Imm Guard plate Passenger car transmission plate, refer to GOTIS http://gotis.aftersales.mercedes-benz.com 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100 AR33.10-P-0100-03P
14 (*) 15 16 17 18 19	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields Support front subframe (1) Detach suspension strut (11) on left and right	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Guard plate Passenger car transmission plate, refer to GOTIS http://gotis.aftersales.mercedes-benz.com Imm 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100 AR33.10-P-0100-03P *BA32.25-P-1010-01B
15 16 17 18	(S10/1) from connector for brake pad wear contact sensor Notes on installing brake pad wear sensor contact sensors Detach contact sensor plug from brake caliper Remove torsion bar (77) Installing protective washers to protect brake disk dust shields Support front subframe (1) Detach suspension strut (11) on left and right	 Installation: The brake hoses must not be twisted after being tightened (danger of cracking). Imm Imm Guard plate Passenger car transmission plate, refer to GOTIS http://gotis.aftersales.mercedes-benz.com Imm 	AH42.10-P-0003-01A *BA42.10-P-1003-10C AR32.20-P-0300P AR42.00-P-0100-01A *220589013100 AR33.10-P-0100-03P *BA32.25-P-1010-01B *BA32.25-P-1008-01B

21	Remove bolts (1c) of front axle carrier (1)	 The bolts (1c) are self-tapping; pay attention to the following procedure: Never recut the thread in the longitudinal member Replace bolts Use only original bolts (4 x) Do not attach bolts at an angle when screwing in Do not use an impact bolt tightener Observe tightening torque 	*BA33.10-P-1003-01A
22	Lower front axle	Secure front axle to prevent it falling.	
23.1	Measure front axle carrier (1)	If necessary	AR40.30-P-0450P
24	Install in the reverse order		
25	Bleed brake system		AR42.10-P-0010P
26	Fill power steering pump and bleed	Except model 203.2 with rear axle level control system code 480 Model 203.2 with rear axle level control system code 480	AR46.30-P-0010P
27	Perform a wheel alignment check		AR40.20-P-0200P

M Front axle carrier

Number	Designation	Model 203
BA33.10-P-1003-01A	Bolt, front axle carrier to front end Nm	100

Nm Engine suspension, engine mounts, engine supports

Number	Designation	Engine 111 in model 203
BA22.10-P-1008-01A	Bolt, front engine mount to front axle Ni carrier	n 35

Nm Engine suspension, engine mounts, engine supports

Number	Designation	Engine 611.962 in model 203	Engine 612.962 in model 203
BA22.10-P-1001-01D	Bolt, front engine mount to front axle Nm carrier	35	35

Mm Engine suspension, engine mounts, engine supports

Number	Designation	Engine 612.990 in model 203	Engine 642 in model 203	Engine 646 in model 203
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BA22.10-P-1001-01D	Bolt, front engine mount to front axle carrier	Nm	35	35	35

Nm Engine mounts, engine supports

Number	Designation		Engine 112.912/ 946 in model 203	Engine 112.961 in model 203
BA22.10-P-1001-01R	Bolt, front engine mount to front axle carrier	Nm	35	35

Nm Engine suspension, engine mounts, engine supports

Number	Designation	Engine 271 in model 203
BA22.10-P-1006-01O	Bolt, front engine mount to front axle carrier Nm	35

Nm Engine suspension, engine mounts, engine supports

Number	Designation		Engine 272 in model 203 except 4-MATIC
BA22.10-P-1001-01S	Bolt, front engine mount to front axle carrier	Nm	35

Nm Brake lines, brake hoses

Number	Designation	Model 203
BA42.10-P-1001-04A	Brake pipe to brake hose Nr	14

Nm Front axle shock absorber

Number	Designation	Model 203 without 4MATIC
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BA32.25-P-1008-01B	Self-locking bolt, suspension strut to steering knuckle at bottom		Nm	110
BA32.25-P-1010-01B	Self-locking nut, suspension strut to steering knuckle at top	Stage 1	Nm	100
		Stage 2	4°	90

Mm Front axle brake caliper

Number	Designation	Model 203
BA42.10-P-1003-10C	Self-locking bolt, brake pad contact sensor to brake caliper Nm	8

Nm Steering shaft

Number	Designation			Model 203 except 203.081/ 084/087/ 092/281/ 284/287/ 292
BA46.10-P-1001-01E	Bolt, steering coupling to steering shaft	Stage 1	Nm	30
		Stage 2	ď°	-

Nm Steering gear

Number	Designation	Model 203
BA46.20-P-1001-01F	Bolt, oil line retaining plate to rack-and-pinion Nm steering	18



