

Model 204.08/09/28/29/38/90/93/98/99

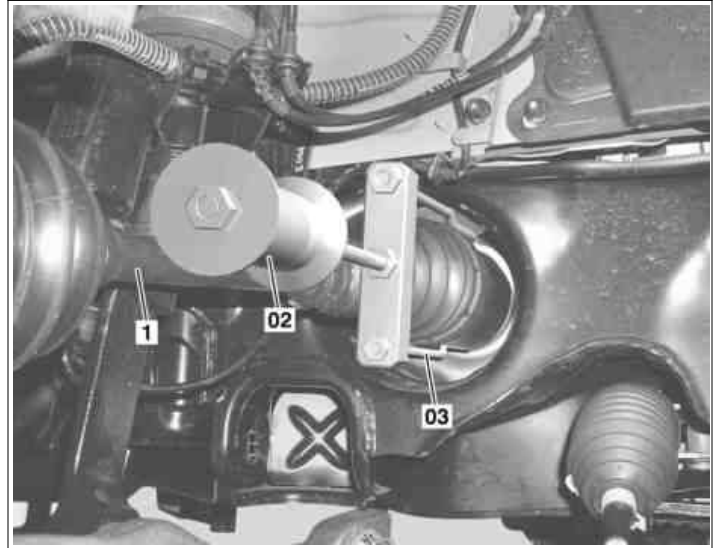
Model 207, 212, 218  
with code M005 (4MATIC)

**Shown on model 204**

02 Slide hammer puller

03 Pulling device

1 Front axle shaft

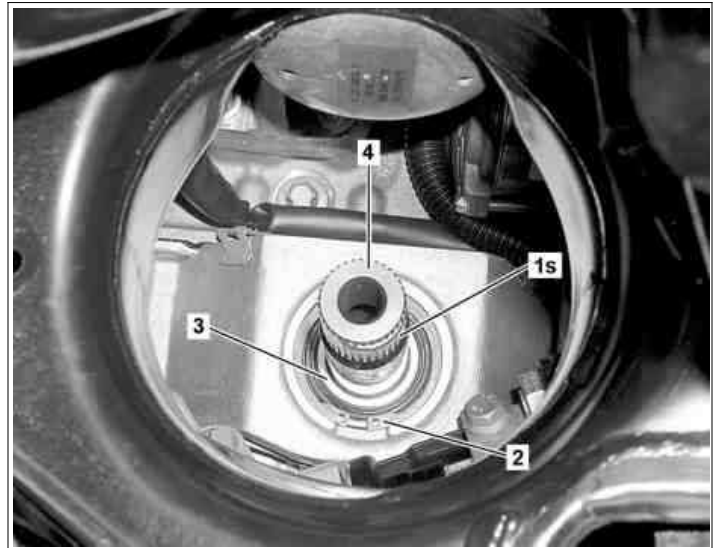


P33.30-2126-11

1s Retaining ring














2 Retaining ring

















4 Intermediate shaft



P33.30-2174-11

☒	Remove		
1.1	Remove front section of lower engine compartment paneling	Model 204.08 with engine 272, 276 Model 204.38 with engine 276 Model 204.90/93/98/99 Model 207 with engine 276 with code M005 (4MATIC) Model 212 with engine 157, 272, 273, 276, 278 with code M005 (4MATIC) Model 218 with engine 157, 276, 278 with code M005 (4MATIC)	

		Model 204.08 with engine 272, 276 Model 204.38 with engine 276 Model 207 with engine 276 with code M005 (4MATIC) Model 212 with engine 157, 272, 273, 276, 278 with code M005 (4MATIC) Model 218 with engine 157, 276, 278 with code M005 (4MATIC) Model 204.90/93/98/99	AR61.20-P-1105EW           AR61.20-P-1105CY
1.2	Remove bottom section of soundproofing at front	Model 204.08/28 with engine 642, 651 Model 204.09/29 with engine 642 Model 212 with engine 642, 651 with code M005 (4MATIC) Model 218 with engine 642 with code M005 (4MATIC)	AR94.30-P-5300EW
2	Detach front wheel and tire assembly	Model 204.08/09/28/29/38/90/93/98/99 Model 207 with code M005 (4MATIC) Model 212, 218 with code M005 (4MATIC)	AP40.10-P-4050CW     AP40.10-P-4050EW
3	Remove bolt of front axle shaft (1) to wheel hub		
4	Detach right or left rpm sensor from steering knuckle and unclip electrical feed line from line bracket	Model 204.08/09/28/29/38/90/93/98/99   Model 207, 212, 218 with code M005 (4MATIC)	AR42.30-P-0712CW    AR42.30-P-0712EW
5	Detach both stabilizer bar link rods from suspension struts	 Counterhold ball stud using internal TORX.	
6	Remove track rod from steering knuckle assembly	 Turn-in steering and check for correct seating of  the puller on the tie rod. If seating is incorrect, damage to the steel contact ring of the tie rod occurs and this results in destruction of the tie rod.  Thrust piece  Puller  Puller  Press	AR46.40-P-0200-02CW      *171589003400 *221589003300 *221589053300 *163589034300
7	Detach cross strut from steering knuckle	 The cross struts should be detached from the steering knuckles only.	
8	Detach torque strut from front axle carrier	Model 204.08/09/28/29/38/90/93/98/99 Model 207 with code M005 (4MATIC) Model 212, 218 with code M005 (4MATIC)	AR33.15-P-0160CW    AR33.15-P-0160EWX
9	Tilt steering knuckle at side, when doing so pull front axle shaft (1) out of front axle shaft flange	 Do not damage the rubber boots of the front axle shaft (1). The front axle shaft (1) must otherwise be replaced.	
10	Pull out front axle shaft (1) using impact extractor (02) and pulling device (03)	 If the left front axle shaft (1) is seized the retaining ring (2) on the intermediate shaft (4) must be removed and then the left front axle shaft (1) can be pulled out with the intermediate shaft (4). Otherwise the oil pan may be damaged.  Absolute cleanliness is essential when working on the front axle transmission. Even minute dirt particles can prevent the front axle differential from functioning correctly.  Extraction tool  Impact extractor	*221589043300 *602589003300
11	Remove radial shaft sealing ring	When removing right front axle shaft (1).	
12.1	Remove retaining ring from front axle shaft (1)	When removing right front axle shaft (1).	
12.2	Remove retaining ring (1s) from intermediate shaft (4)	When removing the left front axle shaft (1).	

	Install		
13.1	Install retaining ring (1s) onto intermediate shaft (4)	When installing the left front axle shaft (1).  Apply light coating of microgrease to retaining ring (1s).  Replace retaining ring (1s). Klueber Microlube GNY 202	*BR00.45-Z-1071-06A
13.2	Install retaining ring for front axle shaft (1)	When installing right front axle shaft (1).  Replace retaining ring of front axle shaft (1).	
14	Install radial shaft sealing ring	When installing right front axle shaft (1).  Replace radial shaft seal.	AR33.30-P-0540SYZ
15	Insert assembly tool into radial shaft sealing ring	When installing right front axle shaft (1).  Pay attention to the splined profile of the front axle shaft (1). Otherwise the radial shaft sealing ring will get damaged.  Assembly tool	*221589019800
16	Press in front axle shaft (1)	 Absolute cleanliness is essential when working on the front axle transmission. Even minute dirt particles can prevent the front axle differential from functioning correctly.  Before installation of the left front axle shaft (1) apply light coating of grease to tothing on intermediate shaft (4).  Remove the assembly tool from the radial shaft sealing ring before fully pressing in the right front axle shaft (1).	
17	Insert front axle shaft (1) into front axle shaft flange		
18	Install strut rod onto front axle carrier	Model 204.08/09/28/29/38/90/93/98/99 Model 207 with code M005 (4MATIC) Model 212, 218 with code M005 (4MATIC)	AR33.15-P-0160CW  AR33.15-P-0160EWX
19	Mount cross strut onto steering knuckle	Model 204.08/09/28/29/38/90/93/98/99 Model 207 with code M005 (4MATIC) Model 212, 218 with code M005 (4MATIC)	AR33.15-P-0161CW  AR33.15-P-0161EW
20	Mount tie rod onto steering knuckle	 Self-locking nut, tie rod to steering knuckle	AR46.40-P-0200-02CW *BA46.40-P-1001-01N
21	Attach stabilizer bar link rods to suspension struts	 Counterhold ball stud using internal TORX.  Nut, link rod to suspension strut	*BA32.20-P-1002-02P
22	Mount rpm sensor at right or left onto steering knuckle and clip electrical line into line bracket	Model 204.08/09/28/29/38/90/93/98/99  Model 207, 212, 218 with code M005 (4MATIC)	AR42.30-P-0712CW  AR42.30-P-0712EW
23	Screw in bolt of front axle shaft (1)	 Bolt, front axle shaft to wheel hub	*BA33.30-P-1001-02H
24   	Mount front complete wheel	Model 204.08/09/28/29/38/90/93/98/99 Model 207 with code M005 (4MATIC) Model 212, 218 with code M005 (4MATIC)	AP40.10-P-4050CW  AP40.10-P-4050EW
25.1	Fit front section of lower engine compartment paneling	Model 204.08 with engine 272, 276 Model 204.38 with engine 276 Model 204.90/93/98/99 Model 207 with engine 276 with code M005 (4MATIC) Model 212 with engine 157, 272, 273, 276, 278 with code M005 (4MATIC) Model 218 with engine 157, 276, 278 with code M005 (4MATIC)	

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25.2	Install bottom section of soundproofing at front	Model 204.08/28 with engine 642, 651 Model 204.09/29 with engine 642 Model 212 with engine 642, 651 with code M005 (4MATIC) Model 218 with engine 642 with code M005 (4MATIC)	AR94.30-P-5300EW

**Nm** Front axle torsion bar

Number	Designation		Model 204	Model 207
BA32.20-P-1002-02P	Nut, link rod to suspension strut	Nm	98	98

**Nm** Front axle torsion bar

Number	Designation		Model 212	Model 218
BA32.20-P-1002-02P	Nut, link rod to suspension strut	Nm	98	98

**Nm** Front axle shaft

Number	Designation		Model 204	Model 207	
BA33.30-P-1001-02H	Bolt, front axle shaft to wheel hub	Stage 1	Nm	160	160
		Stage 2		lösen	lösen
		Stage 3	Nm	120	120
		Stage 4	∠°	90	90

**Nm** Front axle shaft

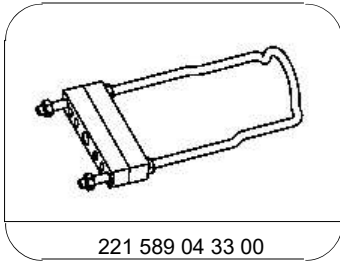
Number	Designation		Model 212	Model 218	
BA33.30-P-1001-02H	Bolt, front axle shaft to wheel hub	Stage 1	Nm	160	160
		Stage 2		lösen	lösen
		Stage 3	Nm	120	120
		Stage 4	∠°	90	90

**Nm** Tie rod

Number	Designation		Model 204	Model 207	
BA46.40-P-1001-01N	Self-locking nut, tie rod to steering knuckle	Stage 1	Nm	50	50
		Stage 2	∠°	60	60

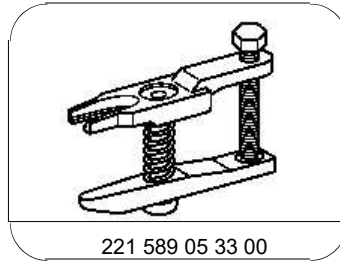
**Nm** Tie rod

Number	Designation		Model 212	Model 218	
BA46.40-P-1001-01N	Self-locking nut, tie rod to steering knuckle	Stage 1	Nm	50	50
		Stage 2	∠°	90	90



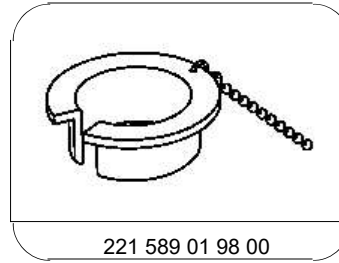
221 589 04 33 00

Extraction tool



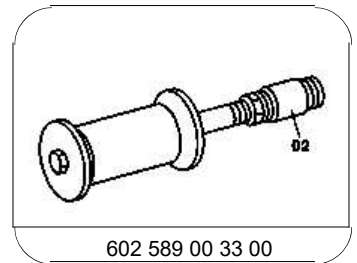
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Puller



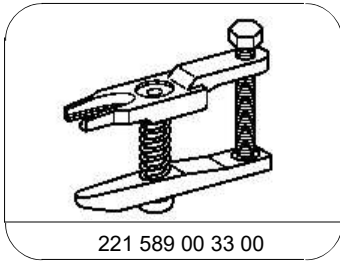
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Assembly tool



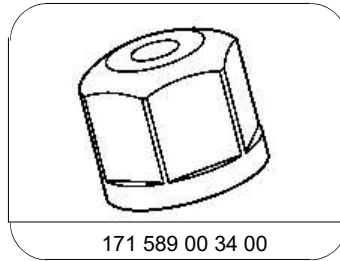
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Impact extractor



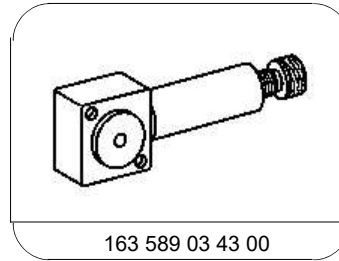
221 589 00 33 00

Puller



171 589 00 34 00

Thrust piece



163 589 03 43 00

Press

#### Repair materials

Number	Designation	Order number
BR00.45-Z-1071-06A	Klueber Microlube GNY 202	A 001 989 44 51 10