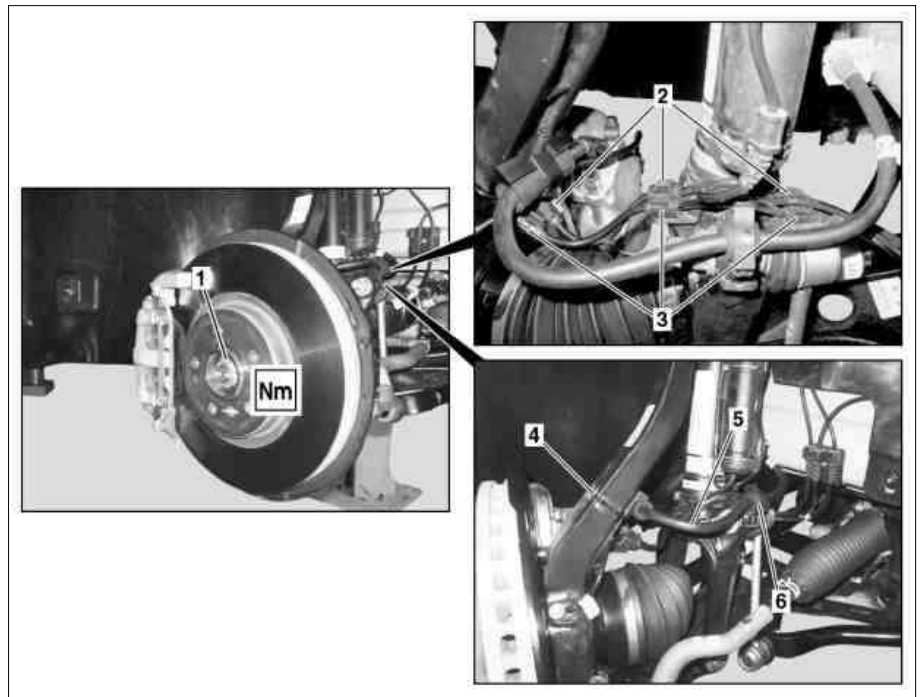


Model 164

Shown on MODEL 164.175 with CODE 489 (AIRmatic)

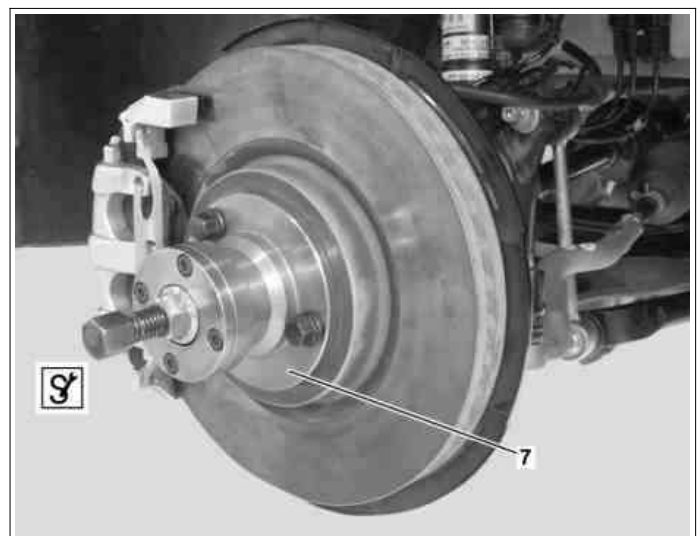
- 1 Right collar nut on front axle shaft
- 2 Bracket
- 3 Bracket
- 4 Cable tie
- 5 Brake hose
- 6 Brake hose bracket



P33.30-2082-06

Shown on MODEL 164.175 with CODE 489 (AIRmatic)

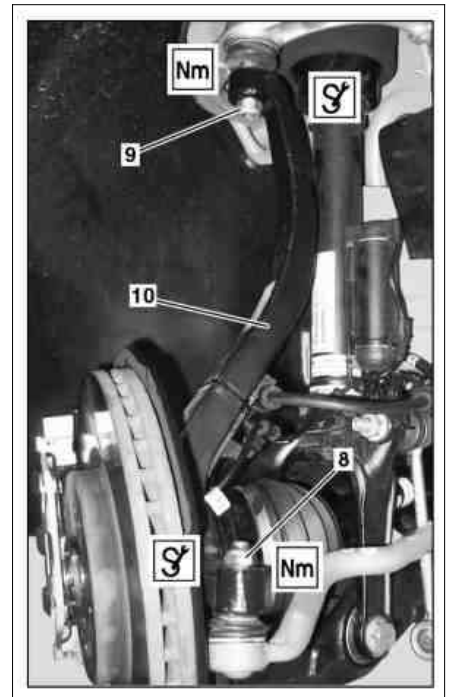
- 7 Extraction and insertion tool



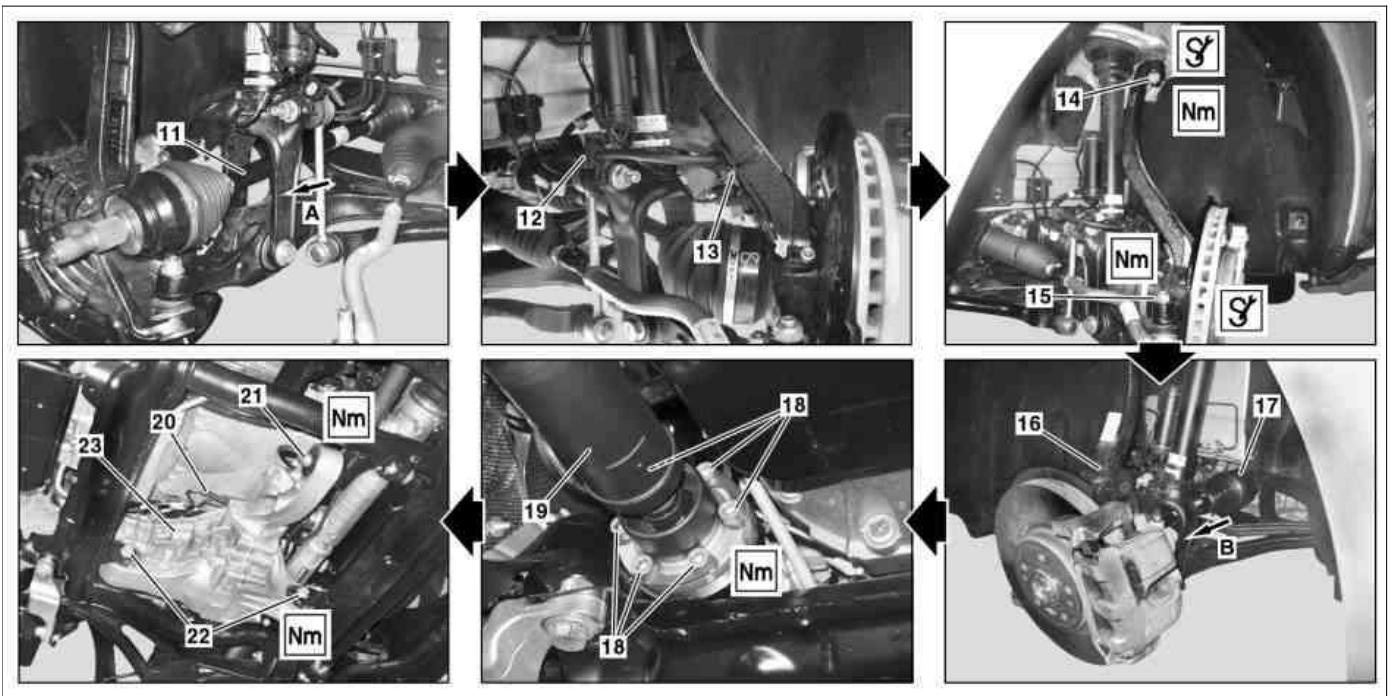
P33.30-2083-11

Shown on MODEL 164.175 with CODE 489 (AIRmatic)

- 8 Nut
- 9 Nut
- 10 Right steering knuckle



P33.30-2084-03
























P33.30-2086-09

Shown on MODEL 164.175 with CODE 489 (AIRmatic)

- | | |
|--|--|
| <ul style="list-style-type: none"> 11 Right front axle shaft 12 Brake hose bracket 13 Cable tie 14 Nut 15 Nut 16 Left steering knuckle 17 Left front axle shaft | <ul style="list-style-type: none"> 18 Bolts 19 Front axle transmission propeller shaft 20 Hose 21 Collar bolt 22 Collar bolts 23 Front axle gear |
|--|--|

⚠ Warning	Risk of injury. Moving parts can pinch, crush or, in extreme cases even sever extremities.	No parts of the body or limbs should be within the operating area of mechanical components when moving components.	AS00.00-Z-0009-01A
⚠ Danger	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A

 Danger	Risk of death when touching components on vehicles with high-voltage on-board electrical system	Do not touch damaged or defective components and open lines of the high-voltage on-board electrical system. Persons who wear electronic implants (e.g. cardiac pacemakers) must not carry out any work on high-voltage on-board electrical systems.	AS54.00-Z-0001-01A
Topical note	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	Notes on repair work on suspension components		AH00.00-P-0100-01A
	Notes on installing brake hoses		AH42.10-P-9406-01GZ
	Remove/install		
1	Switch off ignition and remove transmitter key		
2	Remove the transmitter key from the vehicle and store it in a location beyond its transmission range (at least 2 meters).	Model 164 with code 889 (KEYLESS-GO)	
3	Remove front wheel and tire assembly		AP40.10-P-4050Z
			
4	Unscrew right collar nut on front axle shaft (1)	 For counterholding purposes an assistant must apply the brake.  Model 164.1 Model 164.8 Collar nut, front axle shaft to front axle shaft flange	*BA33.30-P-1001-02D
5.1	Detach lower engine compartment paneling	Model 164 with engine 113 Model 164 with engine 156 Model 164 with engine 272 Model 164 with engine 273	AR61.20-P-1105GZ
5.2	Remove bottom section of soundproofing	Model 164 with engine 629 Model 164 with engine 642	AR94.30-P-5300GZ
6	Remove electrical lines from brackets (2, 3)		
7	Cut off cable ties (4)	 Installation: Pay attention to installation position.  Pliers	*164589013700
8	Remove brake hose (5) from brake hose bracket (6)		
9	Release right front axle shaft (11) from right wheel hub using extraction and insertion tool (7)	 Extraction and insertion tool	*210589034300
10	Unscrew nut (8) and press right tie rod out of right steering knuckle (10)	 Model 164.1/8 Self-locking nut, tie rod to steering knuckle  Thrust piece  Puller	*BA46.40-P-1002-01K *140589006300 *140589093300
11	Unscrew nut (9) and press right steering knuckle (10) out of transverse control arm	 Model 164.1/8 Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle  Thrust piece  Puller	*BA33.20-P-1001-01J *140589006300 *140589093300
12	Secure right steering knuckle (10) using cable ties on transverse control arm		
13	Swivel right steering knuckle (10) out of working area	 Bend transverse control arm as little as possible. Otherwise the bearing shells may be damaged.	
14	Pull right front axle shaft (11) out of front axle transmission (23) (arrow A) and collect any escaping oil	 Installation: Retaining ring must be replaced.	
15	Remove right front axle shaft (11)		
16	Remove brake hose from brake hose bracket (12)		
17	Cut off cable ties (13)		
18	Unscrew nut (15) and press left tie rod out of left steering knuckle (16)	 Model 164.1/8 Self-locking nut, tie rod to steering knuckle  Thrust piece  Puller	*BA46.40-P-1002-01K *140589006300 *140589093300
19	Unscrew nut (14) and remove left steering knuckle (16) from upper left transverse control arm	 Bend transverse control arm as little as possible. Otherwise the bearing shells may be damaged.  Aid of helper required.	

		Model 164.1/8 Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle Thrust piece Puller	*BA33.20-P-1001-01J *140589006300 *140589093300
20	Pull left front axle shaft (17) out of front axle transmission (23) (arrow B) and collect any escaping oil	Installation: Retaining ring must be replaced. Left front axle shaft remains mounted to left wheel hub.	
21	Mark position of front axle gear propeller shaft (19) relative to flange of front axle gear (23)	Aid of helper required.	
22	Remove bolts (18) and detach front axle gear propeller shaft (19) from front axle gear (23)	Tightening procedure for front propeller shaft Model 164 (except 164.156) Installation: Tightening specifications must be strictly observed! Otherwise this may lead to noise development and vibrations. Model 164.1/8 Self-locking bolt, drive shaft to front axle gear Retainer wrench	AR41.10-P-0070-03GZ *BA41.10-P-1004-01F *164589020700
23	Detach hose (20) and seal off end of hose and connection fitting	Record plug	*129589009100
24	Secure front axle transmission (23) using suitable tool against falling down		
25	Unscrew collar bolt (21) and collar bolts (22)	Aid of helper required. Model 164.1/8 Bolt/nut, front axle transmission to front axle carrier Model 164.1/8 Bolt/nut, front axle transmission to front axle carrier	*BA33.30-P-1003-03F *BA33.30-P-1003-03F
26	Remove front axle transmission (23) and collect any escaping oil	Aid of helper required.	
27	Install in the reverse order		
	Check		
28	Check oil level in front axle gear (23) and top up if necessary	Installation: Sealing for oil filler screw must be replaced. Model 164.1/8 Front axle transmission filling screw Model 164.1/8 Filling capacity	*BA33.30-P-1001-03F *BF33.30-P-1001-03D

Wheel control, hub

Number	Designation			Model 164.1/8
BA33.20-P-1001-01J	Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle	Stage 1	Nm	20=14.75 ft. lbs.
		Stage 2	∠°	90

Torque Angle Gauge needed for Stage 2

Front axle shaft

Number	Designation			Model 164.1	Model 164.8
BA33.30-P-1001-02D	Collar nut, front axle shaft to front axle shaft flange	Stage 1	Nm	250=186 ft. lbs.	260=191.75 ft. lbs.
		Stage 2	∠°	45	45

Front axle transmission

Torque Angle Gauge needed for Stage 2

Number	Designation			Model 164.1/8
BA33.30-P-1001-03F	Front axle transmission filling screw		Nm	35=25.8 ft. lbs.

Front axle transmission

Number	Designation			Model 164.1/8
BA33.30-P-1003-03F	Bolt/nut, front axle transmission to front axle carrier M10	Stage 1	Nm	50=36.875 ft. lbs.

		Stage 2	∠°	-
	M12	Stage 1	Nm	93=68.6 ft. lbs.
		Stage 2	∠°	-

Nm Propeller shaft

Torque Angle Gauge needed for Stage 2

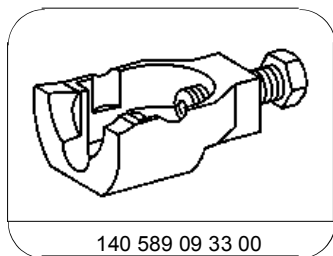
Number	Designation			Model 164.1/8
BA41.10-P-1004-01F	Self-locking bolt, drive shaft to front axle gear	Stage 1	Nm	40=29.5 ft. lbs.
		Stage 2	∠°	90

Nm Tie rod

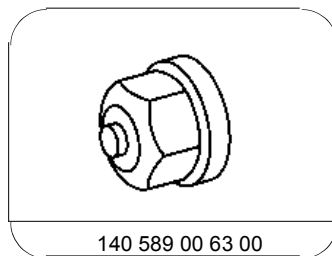
Number	Designation			Model 164.1/8
BA46.40-P-1002-01K	Self-locking nut, tie rod to steering knuckle	Stage 1	Nm	45=33 ft. lbs.
		Stage 2	∠°	90

Front axle transmission

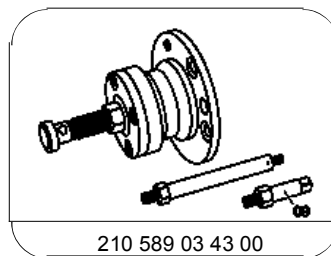
Number	Designation			Model 164.1/8
BF33.30-P-1001-03D	Filling capacity	Front axle transmission	Liter	1,1
		Sheet		BB00.40-P-0235-07 A



Puller



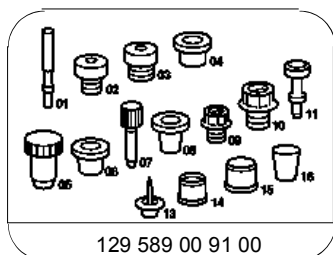
Thrust piece



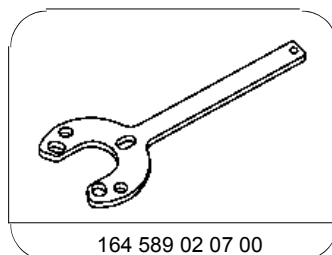
Extraction and insertion tool



Pliers



Record plug



Retainer wrench