

MODEL 463.200 /204 /207 /220 /221 /224 /225 /227 /228 /304 /307 /324 /325 /327 /328 with TRANSFER CASE 750.650

MODEL 463.228 /300 /320 /321 with TRANSFER CASE 750.651

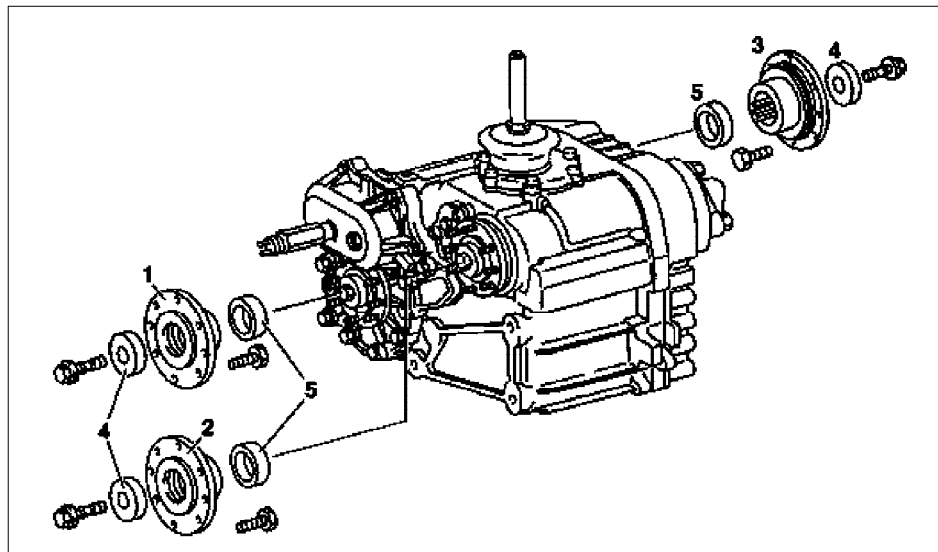
MODEL 463.200 /204 /207 /220 /221 /224 /225 /227 /228 /304 /307 /324 /325 /327 /328 with TRANSFER CASE 750.652

MODEL 463.206 /208 /209 /230 /231 /232 /233 /240 /241 /308 /330 /331 with TRANSFER CASE 750.653

MODEL 461.302 /332 /342 /345, 463.243 /244 /245 /246 /247 /248 /249 /254 /250 /309 /322 /323 /332 /333 with TRANSFER CASE 750.654

Shown on transfer case 750.653

- 1 Front axle coupling flange
- 2 Transmission coupling flange
- 3 Rear axle coupling flange
- 4 Thrust plates
- 5 Radial shaft seals



P28.10-2019-05

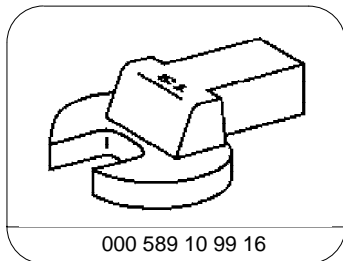
	Remove		
	As the procedure is similar for the input and output flanges, these instructions only describe work on the output flange to the front axle. The work can be carried out with the transfer case removed or installed. The propeller shaft must be detached from the appropriate flange.		
1	Detach propeller shaft from transfer case		AR41.10-P-0400-01B
2	Remove connector flange (1)	Mark installed position. Retainer wrench Puller	AR28.10-P-1000-09B *460589013100 *460589023300
3	Remove rotary shaft seal (5)	Extractor	AR28.10-P-1000-15B *463589003300
	Install		
4	Install rotary shaft seal (5)	Drift Molykote Multi-purpose grease	AR28.10-P-1000-12B *463589001500 *BR00.45-Z-1001-06A *BR00.45-Z-1030-06A
5	Install connector flange (1)	Before installing: Insert bolts in the propeller shaft fixing. Nm Retainer wrench	AR28.10-P-1000-10B *BA28.50-P-1001-01B *460589013100 *BR00.45-Z-1055-06A
6	Attach propeller shaft to transfer case	Replace nuts. Propeller shaft Homokinetic propeller shaft Open-end wrench bit Torque wrench	AR41.10-P-0400-01B *BA41.10-P-1002-01B *BA41.10-P-1001-01B *000589109916 *001589662100

Propeller shaft

Number	Designation		Models 461.302/ 332/342	Model 461.345	Type 463
BA41.10-P-1001-01B	Bolt, homokinetic propeller shaft to transmission flange	Nm	60	60	60
BA41.10-P-1002-01B	Bolt, propeller shaft to transmission flange	Nm	35	35	35

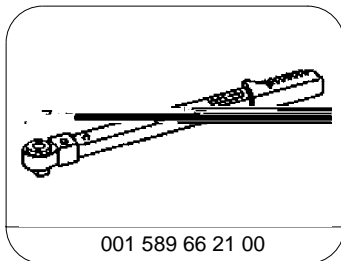
Nm Transfer case gear set, shafts

Number	Designation		Model 461.302/ 332/342/ 345	Type 463
BA28.50-P-1001-01B	Bolt, flange to shaft	Nm	84	84



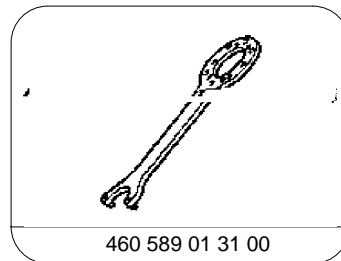
000 589 10 99 16

Open-end wrench bit 13 mm



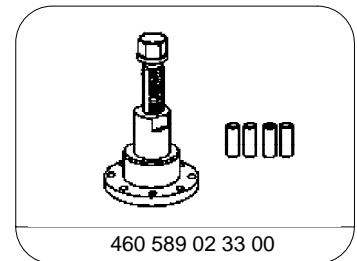
001 589 66 21 00

Torque wrench



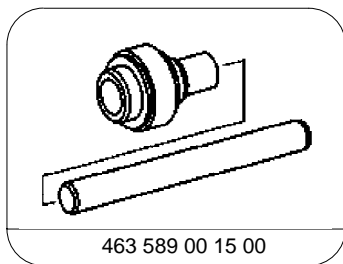
460 589 01 31 00

Retaining wrench



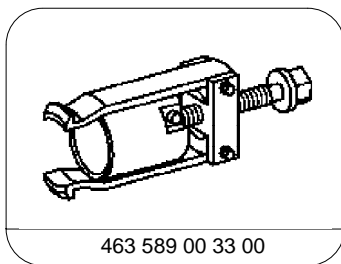
460 589 02 33 00

Puller



463 589 00 15 00

Drift



463 589 00 33 00

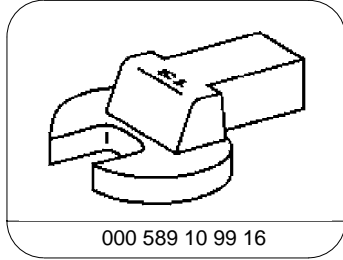
Extractor

Auxiliary repair materials

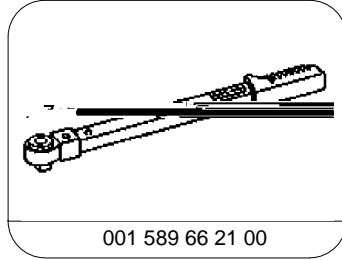
Number	Designation	Order number
BR00.45-Z-1001-06A	MB long-life grease	000 989 63 51
BR00.45-Z-1030-06A	Multi-purpose grease	001 989 28 51 10
BR00.45-Z-1055-06A	Anticorrosion agent: Loctite Anti-Seize	Loctite Deutschland GmbH, Arabellastrasse 17 D-81925 Munich

 **Propeller shaft**

Number	Designation		Model 461.302/ 332/342	Models 461.345	Model 463
BA41.10-P-1001-01B	Bolt, homokinetic propeller shaft to transmission flange	Nm	60	60	60
BA41.10-P-1002-01B	Bolt, propeller shaft to transmission flange	Nm	35	35	35




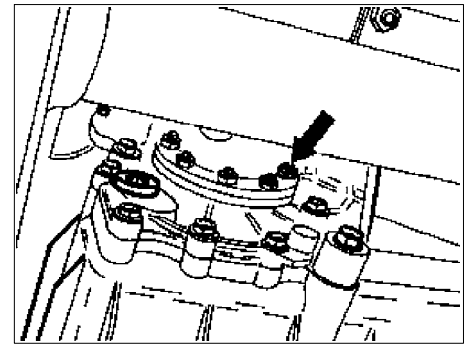
Open-end wrench bit 13 mm



Torque wrench


Remove output shaft to front axle

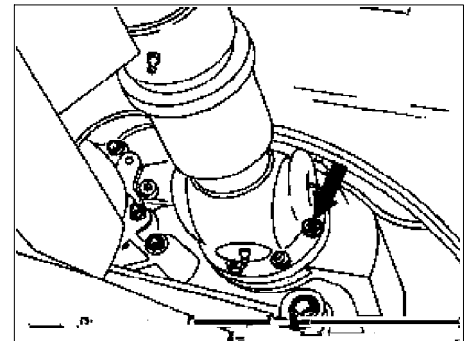
- 1 Shift manual or automatic transmission to neutral position, shift transfer case to on-road setting and raise left front wheel.
 - 2 Remove output shaft to front axle, while turning left front wheel.
 - 3 Tie up output shaft at one side.
-  Fit bolt at flange and secure.



P41.10-2018-01

Disconnect drive shaft

- 4 Shift manual or automatic transmission to neutral position and shift transfer case to "N".
 - 5 Remove drive shaft while turning propeller shaft.
 - 6 Tie up drive shaft at one side.
-  Drive shaft is installed in homokinetic and normal version.

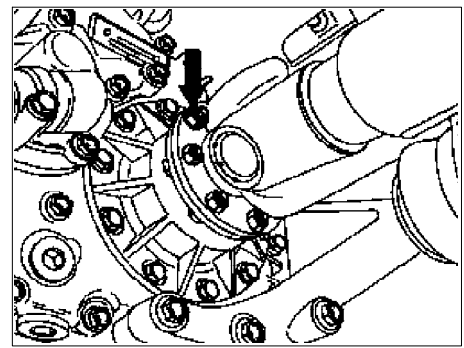


P41.10-2019-01

Remove output shaft to rear axle

- 7 Shift manual or automatic transmission to neutral position and shift transfer case to on-road setting.
- 8 Remove output shaft to rear axle, while turning left rear wheel.
- 9 Tie up output shaft at one side.

Shown on transfer case 750.653

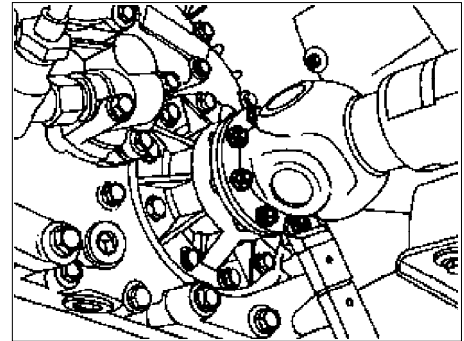


P41.10-2020-01

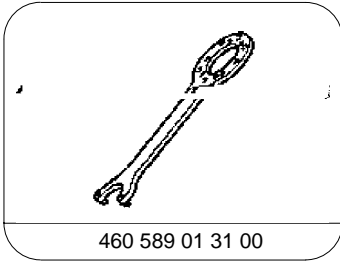
- 10 Install in reverse sequence.

i Installation:

- . Use new nuts.
- . Turn yellow marking on transfer case input flange all the way to the bottom.
- . Connect propeller shafts to front axle, rear axle and engine to transfer case. Ensure that the green marking of the propeller shafts on both sides of the transfer case is at the top.
- . Tighten bolts diagonally across.

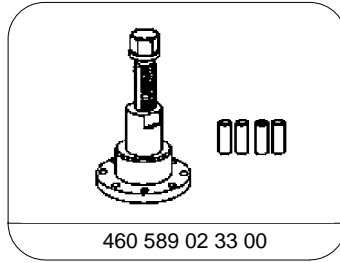


P41.10-2021-01



460 589 01 31 00


Retaining wrench




460 589 02 33 00


Puller

i As the procedure is similar for the input and output flanges, these instructions only describe work on the output flange to the front axle.

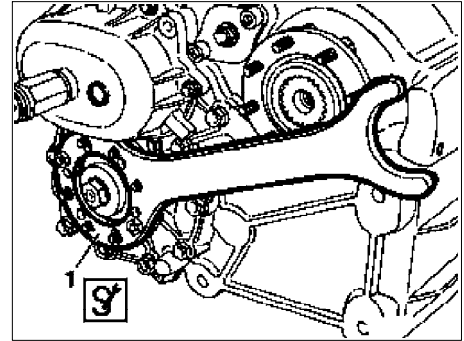
- 1 Attach retainer wrench  (1) and unscrew center bolt in coupling flange.

i If the transfer case is installed, 1st gear should be engaged in vehicles with manual transmission, or automatic transmissions set to Park ("P"), the transfer case should be set to the off-road position and the brakes applied.

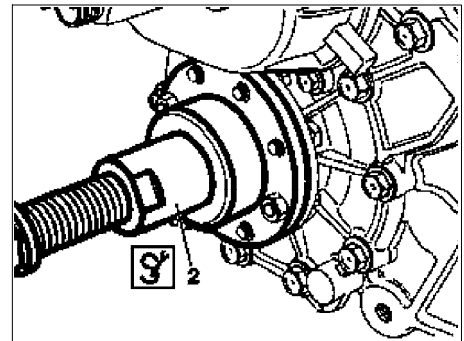
The retainer wrench  (1) is then not necessary.

- 2 Install puller  (2) and pull off coupling flange.

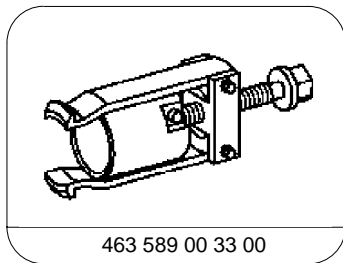
i Mark installed position.



P28.10-2020-01




P28.10-2021-01

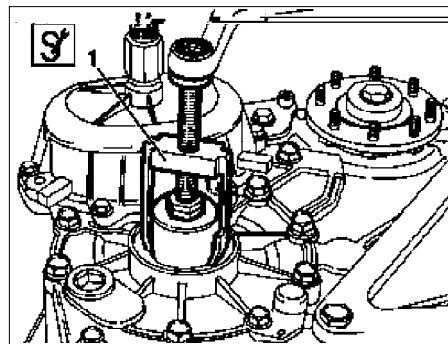


Extractor

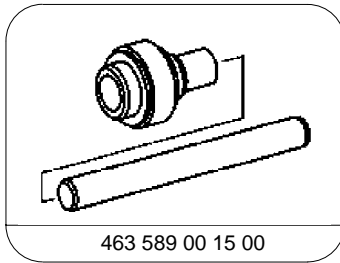
Shown on transfer case 750.653

i As the procedure is similar for the input and output flanges, these instructions only describe work on the output to the front axle.

- 1 Pull radial shaft seal with annular spring out of the front axle sealing flange puller (1) .



P28.10-2022-01



463 589 00 15 00


Drift

Auxiliary repair materials

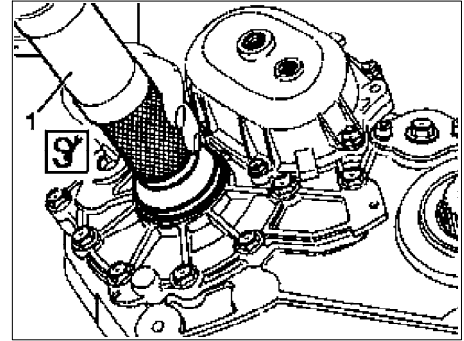
Number	Designation	Order number
BR00.45-Z-1001-06A	MB long-life grease	000 989 63 51
BR00.45-Z-1030-06A	Multi-purpose grease	001 989 28 51 10

Shown on transfer case 750.653

i As the procedure is similar for the input and output flanges, these instructions only describe work on the output to the front axle.

- 1 Coat radial shaft seal with Molykote.
- 2 Fit radial shaft seal and install with drift  (1).

i Pack space between sealing lips max. 2/3 full with multi-purpose grease.

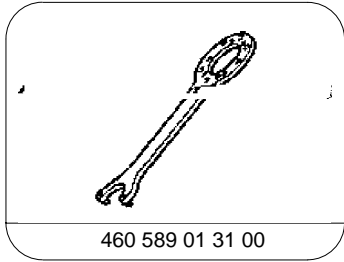


P28.10-2023-01

AR28.10-P-1000-10B	Install coupling flanges.	
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Nm Transfer case gear set, shafts

Number	Designation	Models	Model 463
		461.302/ 332/342/ 345	
BA28.50-P-1001-01B	Bolt, flange to shaft	Nm 84	84



460 589 01 31 00

Retaining wrench

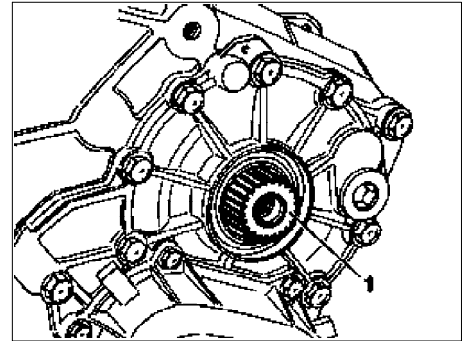
Repair products

Number	Designation	Order number
BR00.45-Z-1055-06A	Anticorrosion agent: Loctite Anti-Seize	Loctite Deutschland GmbH, Arabellastrasse 17 D-81925 Munich

i The work procedure is the same for the drive and output flange and therefore only shown for the output flange to the front axle.

- 1 Coat splines of drive shaft (1) with anticorrosion agent.
- 2 Install coupling flange on the splines of the drive shaft (1).

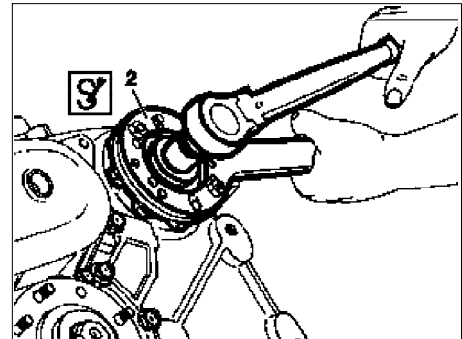
i Before attaching the coupling flange, insert the bolt for securing the propeller shaft and pay attention to the markings.



P28.10-2024-01

- 3 Attach retainer wrench **9** (2) and screw center bolt into the coupling flange.

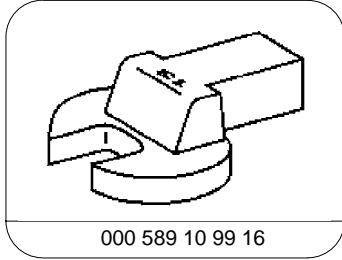
i With transfer case installed, engage 1st gear of manual transmission or set lever of automatic transmission to Park ("P"), shift transfer case to off-road setting and apply brake. The retainer wrench (2) is then not necessary.



P28.10-2025-01

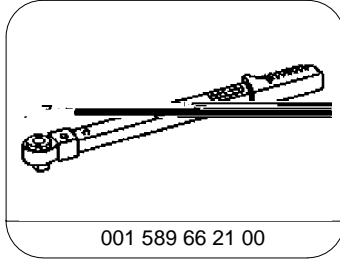
Nm Propeller shaft

Number	Designation		Model 461.302/ 332/342	Models 461.345	Model 463
BA41.10-P-1001-01B	Bolt, homokinetic propeller shaft to transmission flange	Nm	60	60	60
BA41.10-P-1002-01B	Bolt, propeller shaft to transmission flange	Nm	35	35	35



000 589 10 99 16

Open-end wrench bit 13 mm

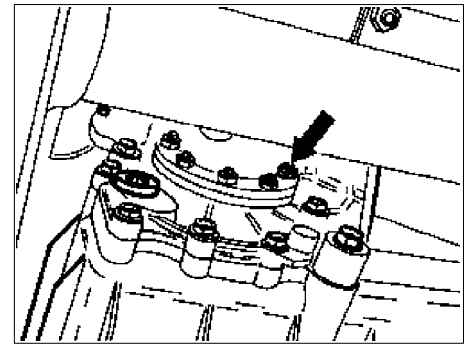


001 589 66 21 00

Torque wrench

Remove output shaft to front axle

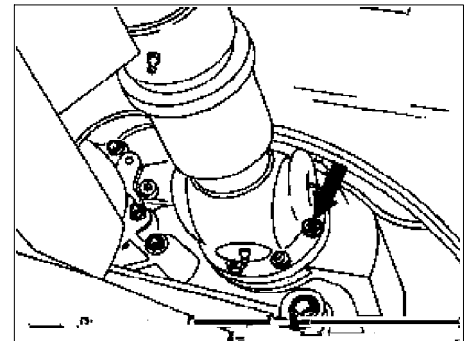
- 1 Shift manual or automatic transmission to neutral position, shift transfer case to on-road setting and raise left front wheel.
 - 2 Remove output shaft to front axle, while turning left front wheel.
 - 3 Tie up output shaft at one side.
- i** Fit bolt at flange and secure.



P41.10-2018-01

Disconnect drive shaft

- 4 Shift manual or automatic transmission to neutral position and shift transfer case to "N".
 - 5 Remove drive shaft while turning propeller shaft.
 - 6 Tie up drive shaft at one side.
- i** Drive shaft is installed in homokinetic and normal version.

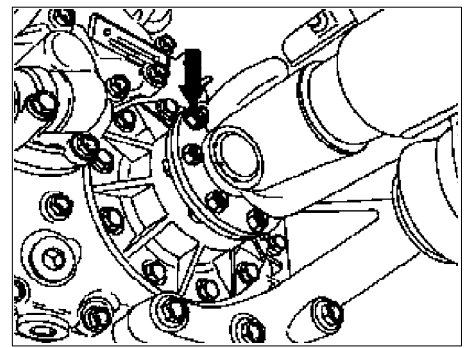


P41.10-2019-01

Remove output shaft to rear axle

- 7 Shift manual or automatic transmission to neutral position and shift transfer case to on-road setting.
- 8 Remove output shaft to rear axle, while turning left rear wheel.
- 9 Tie up output shaft at one side.

Shown on transfer case 750.653

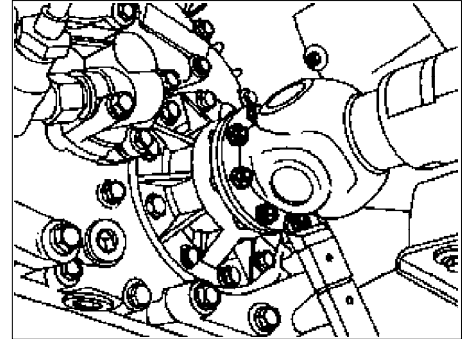


P41.10-2020-01

- 10 Install in reverse sequence.

i Installation:

- . Use new nuts.
- . Turn yellow marking on transfer case input flange all the way to the bottom.
- . Connect propeller shafts to front axle, rear axle and engine to transfer case. Ensure that the green marking of the propeller shafts on both sides of the transfer case is at the top.
- . Tighten bolts diagonally across.



P41.10-2021-01