

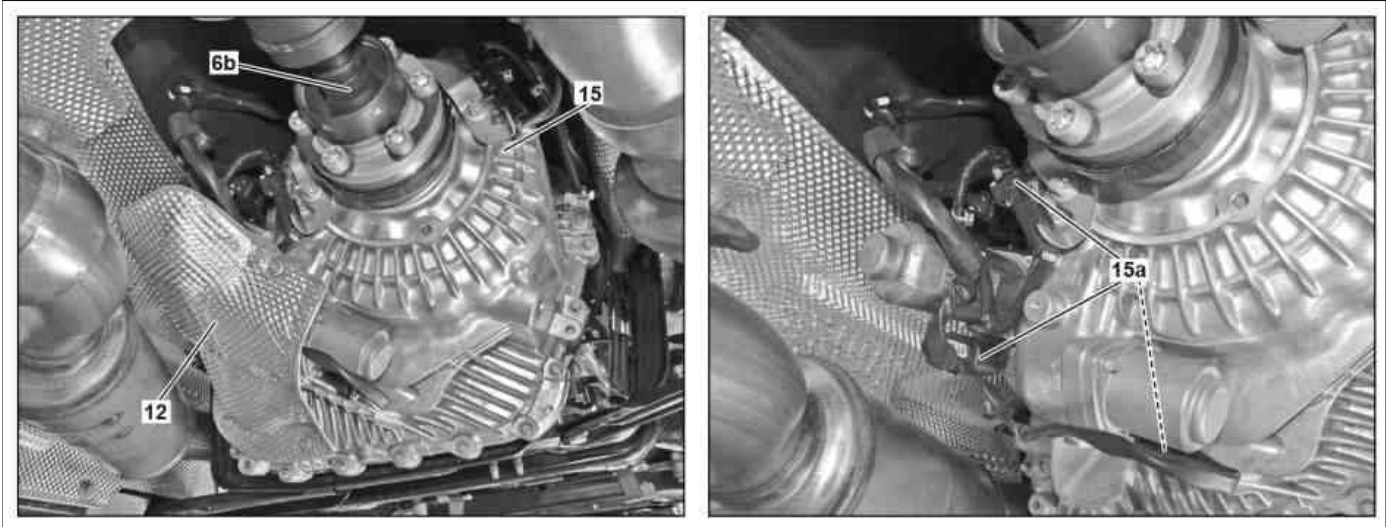
Model 166 (except 166.006/058), 292

Modification notes

09.04.2015 Bolt, transfer case to automatic transmission

MODEL 166

BA28.10-P-1002-01A

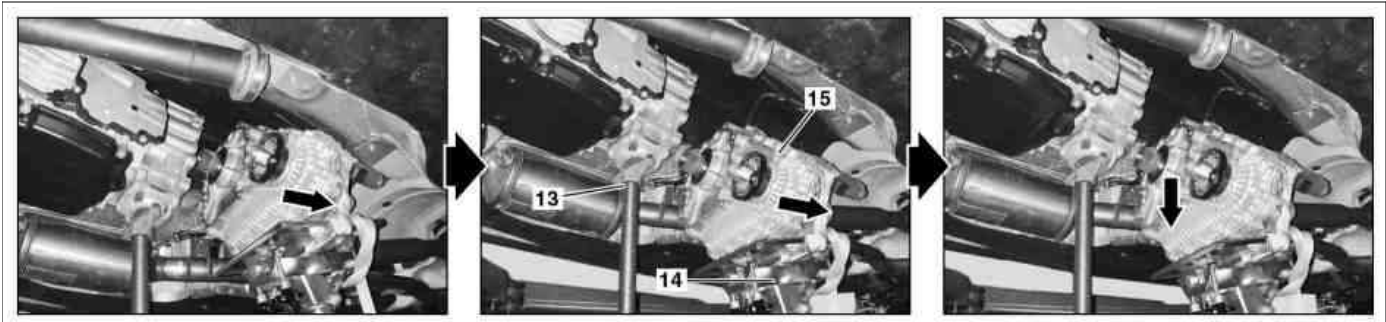


P28.19-2063-08

Shown on transfer case with CODE 430 (On & off-road package)

6b Rear propeller shaft
12 Heat shield

15 Transfer case
15a Electrical connectors



P28.10-2227-07















13 Support brace

14 Transmission plate

15 Transfer case

1 Transmission
6a Front propeller shaft
14 Transmission plate



	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
	Risk of injury. Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
	Risk of injury caused by scraping or cutting body parts on sharp vehicle parts	Always wear protective gloves when working on or near sharp and non-deburred vehicle parts. Deburr repair panels.	AS00.00-Z-0017-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	Notes on bolted connections with self tapping screws		AH00.00-P-0007-01SF
	Evaluation of high-voltage components		AH54.00-P-6500-01SXH
	Remove/install		
1	Perform disable for the high-voltage on-board electrical system	Model 166.063	AR54.10-P-1150GQA
2	Move DIRECT SELECT selector lever to position N		
3	Release parking brake		
4	Secure vehicle on vehicle lift		AR00.60-P-0100GZ
5	Remove underfloor paneling		AR61.30-P-1001GQ
6	Remove temperature sensor upstream of SCR catalytic converter	Model 166 (except 166.006) with engine 651 with code U42 (BlueTEC diesel exhaust treatment (SCR))	AR14.40-P-2011GZB
7	Remove heat shield (12)	Model 166 (except 166.006/058), 292 with transmission 722.9 with code 430 (On & off-road package)	
8	Detach and unclip electrical connections (15a) from transfer case (15)	Model 166 (except 166.006/058), 292 with transmission 722.9 with code 430 (On & off-road package)	
9	Unclip wiring harness from transfer case (15)		
10	Mark position of rear propeller shaft (6b) relative to output flange		
11	Remove rear propeller shaft (6b) at output flange to rear axle from transfer case (15), place to one side and fix in place	Tightening procedure for rear propeller shaft to transfer case  Installation: Observe tightening procedure for rear propeller shaft (6b).  Self-locking screw/bolt of propeller shaft at transfer case/adaptor housing (to rear axle)  Retainer wrench	AR41.10-P-0050-17GZ *BA41.10-P-1001-01F *164589020700
12	Mark position of front propeller shaft (6) relative to output flange		
13	Remove front propeller shaft (6a) at output flange to front axle from transfer case (15), place to one side and fix in place	Tightening procedure for front propeller shaft  Mark the position of the front propeller shaft (6a) on the output flange.  Installation: Observe tightening procedure for front propeller shaft (6a).  Self-locking bolt, drive shaft to front axle gear  Self-locking bolt, drive shaft to transfer case (to front axle)  Retainer wrench	AR41.10-P-0070-03GZ *BA41.10-P-1004-01F *BA41.10-P-1003-01F *164589020700
14	Remove rear engine cross member	Model 292 with engine 642 Model 166 (except 166.006) with engine 651 Model 166 (except 166.058) with engine 276 Model 166 with engine 157 Model 166 with engine 278 Model 166 with engine 642	AR22.10-P-4360OGR AR22.10-P-1180GQ
15	Support rear engine mount using support brace (13)		
16	Slowly lower drive train until upper bolts on transfer case (15) are accessible		
17	Support transfer case (15) using telescopic lifter and transmission plate (14) and lash down securely  WS  WS 000 588 11 62 00 Major assembly mount 000 588 10 62 00 Support plate		WS01.00-P-0092B WS26.00-P-3309B

18	Remove bolts from transfer case (15)	Screw/bolt, transfer case to automatic transmission	*BA28.10-P-1002-01A
19	Push transfer case (15) to rear until transfer case (15) is completely detached from transmission (1), and lower transfer case (15)	Move primary shaft of transfer case (15) completely out of transmission (1). Installation: Apply light coating of grease to gearing on primary shaft of transfer case (15). Long-life grease	*BR00.45-Z-1001-06A
20	Install in the reverse order		
	Check		
21	Check oil filling capacity in transfer case (15) and correct if necessary	Filling screw to transfer case Model 166 (except 166.006/058) Double-speed Model 166 (except 166.006/058) Single-speed Model 292 Transmission oil	*BA28.10-P-1001-01A *BF28.10-P-1001-01E
22 	Calibrate using diagnostic system, read out fault memory and delete, if necessary	Menu item: Transfer case (VG) → Control unit adaptations → Calibration	AD00.00-P-2000-04A

Complete transfer case

Number	Designation		Model 166 with transmission 722, 724 Model 292 with transmission 722	Model 166, 292 with transmission 725.0
BA28.10-P-1001-01A	Filling screw to transfer case	Nm	25	25

Complete transfer case

Number	Designation		Model 166 with transmission 722, 724 Model 292 with transmission 722	Model 166, 292 with transmission 725.0
BA28.10-P-1002-01A	Screw/bolt, transfer case to automatic transmission	Nm	47	47

Propeller shaft

Number	Designation		Model 166	Model 292	
BA41.10-P-1001-01F	Self-locking screw/bolt of propeller shaft at transfer case/adaptor housing (to rear axle)	Stage 1	Nm	40	40
		Stage 2	∠°	90	90

Propeller shaft

Number	Designation		Model 166	Model 292	
BA41.10-P-1003-01F	Self-locking bolt, drive shaft to transfer case (to front axle)	Stage 1	Nm	40	40
		Stage 2	∠°	90	90

Propeller shaft

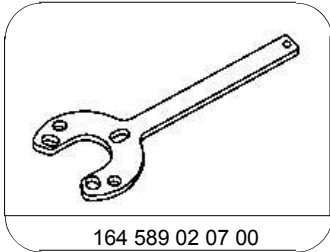
Number	Designation		Model 166	Model 292	
BA41.10-P-1004-01F	Self-locking bolt, drive shaft to front axle gear	Stage 1	Nm	40	40
		Stage 2	∠°	90	90

Complete transfer case

Number	Designation	Model 164, 166 except code 430 (Offroad package)	Model 164, 166 with code 430 (Offroad package)
BF28.10-P-1001-01E	Transmission oil	Filling capacity	0,5
		Liter	1,5
	Sheet	BB00.40-P-0236-12A	BB00.40-P-0236-12 A

 Complete transfer case

Number	Designation	Model 292
BF28.10-P-1001-01E	Transmission oil	Filling capacity
		Liter
	Sheet	BB00.40-P-0236-12 A



164 589 02 07 00

Retainer wrench

Repair materials

Number	Designation	Order number
BR00.45-Z-1001-06A	Long-life grease	A 000 989 63 51 11