AR25.20-P-0125SM Clutch actuator remove/install 30.11.06

MODEL 450.3 /4 with ENGINE 160.910 with TRANSMISSION 717.407

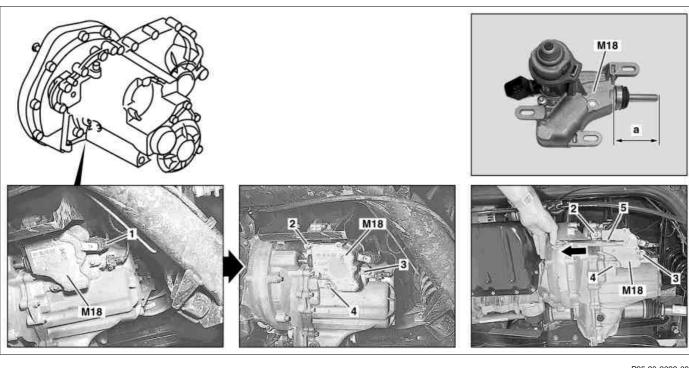
up to WME01MCO12H106037

MODEL 450.3 /4 with ENGINE 160.920 with TRANSMISSION 717.408 /476

as of WME4503001J000001

MODEL 450.3 /4 with ENGINE 660.940 with TRANSMISSION 717.409

MODEL 452.3 /4 with ENGINE 160.921 /922 /923



P25.20-2022-09

- 1 Connector
- 2 Bolt
- 3 Bolt

- 4 <u>Bo</u>lt
- 5 Spring balance

- a Dimension
- M18 Coupling motor

Modification notes

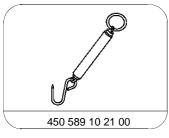
7.8.06	Description of menu updated by STAR DIAGNOSIS.	Steps 8, 11, 12	
13.11.06	Switch off ignition and wait for computer afterrun added	Step 9	
	Method for loosening clutch actuator revised	Step 11	

X	Removing		
⚠ 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
1	Disconnect plug (1) from clutch motor (M18)		
2	Unscrew bolts (2, 3, 4) and remove clutch motor (M18)		
X	Install		
3	Check plunger position on clutch motor (M18)	Do not activate the clutch motor (M18) when removed or installed before adjusting (ignition ON). The clutch motor (M18) can then only be moved back in electrically with additional force from the clutch. The plunger must be in the moved-in position for installation, dimension (a) is 60 mm. If necessary insert the plunger mechanically. Ensure that the plunger is engaged.	
4	Insert clutch motor (M18) in the transmission housing and screw in bolts (2, 3, 4) loosely		
5	Connect plug (1) to clutch motor (M18)		

6	Position spring balance (5) on clutch motor (M18) and load with 50 Nm axially in the	i Only carry out the adjustment on a cold	
	direction of the clutch rocker (arrow). Hold the clutch motor (M18) in this position and tighten the bolts (2, 3, 4) in the specified	engine, at a coolant temperature < 40 °C. When adjusted correctly the plunger must not have any axial play and must fit correctly in the socket of the release lever. Slight	
	sequence	radial movement with friction in the socket is permissible.	
		Nm	*BA25.20-P-1002-01C
		Spring balance	*450589102100
⁷ I≆AD	Connect STAR DIAGNOSIS Connect STAR DIAGNOSIS and read out fault memory	Model 450	AD00.00-P-2000-04SM
		Type 452	AD00.00-P-2000-04RR
8	Perform "Pulse clutch" menu using STAR	i The "pulse clutch" menu is located in the	
	DIAGNOSIS	menu structure:	
		- "Main menu" - "Systems" menu	
		- "engine electronics - electronic accelerator - transmission (MEG) control unit or	
		electronic diesel transmission control control	
		unit" menu - "Actuator control" menu	
		- "Clutch" menu	
		- "After removing/installing or exchanging the	
		component" menu - "Pulsing the clutch" menu	
9	Switch off ignition and wait for STAR DIAGNOSIS computer afterrun	The computer afterrun is approx. 30 s.	
10	Position spring balance (5) on clutch motor (M18) and load with 50 Nm axially in the direction of the clutch rocker (arrow). Loosen bolts (2, 3, 4) carefully, in the process keep the spring balance (5) under load	The clutch motor (M18) must not be relieved of load to 0 Nm, otherwise the adjustment is to be repeated.	
		Spring balance	*450589102100
11	Relieve the load on the clutch motor (M18) to 11 Nm with the spring balance (5), hold in this position and tighten the bolts (2, 3, 4) in the specified sequence	Nm	*BA25.20-P-1002-01C
		Spring balance	*450589102100
12	Program engagement of clutch/ disengagement of clutch point using STAR DIAGNOSIS	i The menu item "Teach in engaged clutch and disengaged clutch position" is located in the: - "Clutch" menu	
13	Teach in clutch drag point using STAR DIAGNOSIS	i The menu item "Teach in clutch drag point" is located in the: - "Clutch" menu	
14 ►► A D	Close STAR DIAGNOSIS Connect STAR DIAGNOSIS and read out	Model 450	AD00.00-P-2000-04SM
	fault memory	March 1450	A D 00 00 D 0000 0455
		Model 452	AD00.00-P-2000-04RR

Nm Clutch mechanism

Number	Designation		Model 450.3	Model 450.4	Model 452.3/4
BA25.20-P-1002-01C	Clutch actuation to transmission	Nm	10	10	10



Spring balance