

MODEL 215, 216, 220, 221, 230 with CODE (487) Active Body Control (ABC)

	Remove/install		
 Danger!	Risk of injury to skin or eyes caused by hydraulic fluid spraying out under high pressure. Risk of poisoning caused by swallowing hydraulic fluid.	Depressurize the hydraulic system completely before starting any work on the system. Wear protective clothing and safety glasses.	AS00.00-Z-0013-01A
	It is essential to ensure the utmost cleanliness throughout the entire procedure as even the smallest dirt particles in the hydraulic components can lead to malfunctions and a total failure of the ABC system		
	Always observe the work procedure; failure to do so will cause damage and thus result in total failure of the ABC system		
	When the work has been completed, cooling of the hydraulic fluid (after the engine is switched off) will cause the body to be lowered		
1	Pull dipstick out of ABC expansion reservoir and check color of hydraulic fluid	 If the hydraulic fluid (ATF) is red, the red hydraulic fluid (ATF) must be replaced with green hydraulic fluid (Pentosin) and the ABC system must be flushed out completely.	
2	Check and correct oil level in ABC expansion reservoir  BB Hydraulic fluids (Specification 345.0)	 Use the measurement opening to correct the oil level.	BB00.40-P-0345-00A
3	Connect STAR DIAGNOSIS, perform quick test routine and erase fault memory if necessary		
4	Start engine and run at idling speed	 Wheels in straight-ahead position.	
5	In Suspension menu of STAR DIAGNOSIS, select "Actuate all suspension struts alternately in circular sequence (rodeo)" and start program	 The hydraulic fluid is heated to approx. 80 °C.  The program takes approx. 15 min.	
6	Turn off engine		
7	Detach return line from ABC expansion reservoir and guide into a suitable receptacle	 The receptacle must have a capacity of at least 15 l.	
8	Detach cover from ABC expansion reservoir, remove filter element and reseal ABC expansion reservoir	See Filter ABC hydraulic fluid.	AR32.50-P-0025A
9	Start engine and run at idling speed		
10	Start flushing procedure; to do so, select "Actuations/Actuate front and rear suspension struts alternately (pitching)" in Suspension menu of STAR DIAGNOSIS and start program	 The vehicle is raised and lowered alternately at the front and rear axle and hydraulic fluid is discharged from the return line.	
11	Monitor hydraulic fluid level in ABC expansion reservoir through measurement opening  BB Hydraulic fluids (Specification 345.0)	 As soon as the ABC expansion reservoir is 3/4 empty, pour in hydraulic fluid continuously through the measurement opening until the ABC system has been flushed out with approx. 10 l of fresh hydraulic fluid. When pouring in the hydraulic fluid, do not use the normal ABC funnel with filter as this funnel does not allow the required quantity of hydraulic oil to pass through. Make sure that the funnel used is absolutely clean (do not bring the funnel into contact with linty rags; wrap the funnel in clean protective foil after use).  Never allow the tandem pump to run dry. If there is a danger of the tandem pump running dry, switch off the engine, pour in hydraulic fluid and go back to operation step 9.	BB00.40-P-0345-00A
12	Turn off engine		
13	Replace and install filter element	See Filter ABC hydraulic fluid.	AR32.50-P-0025A

		 Replace the old 10 µm filter element with a new 3 µm filter element.	
14	Seal ABC expansion reservoir		
15	Attach return line at bottom of ABC expansion reservoir		
16	Check and correct oil level in ABC expansion reservoir Hydraulic fluids (Specification 345.0)	 Use the measurement opening to correct the oil level.	BB00.40-P-0345-00A
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17	Perform engine test run and check that ABC system is functioning correctly and is not leaking	 STAR DIAGNOSIS must be connected.	
18	Disconnect STAR DIAGNOSIS from vehicle		