



Contents

00 - Technical data	1
1 Brake allocation via PR No.	1
1.1 Example of a vehicle data sticker	1
1.2 Front brakes	1
1.3 Rear brakes	1
2 Technical data	3
2.1 Brake master cylinder and brake servo	3
2.2 Front brakes	3
2.3 Rear brakes	4
3 Brake test	5
3.1 General	5
3.2 Testing vehicles with no electric differential lock	5
3.3 Testing vehicles with electric differential lock	5
3.4 Testing the electromechanical parking brake	5
45 - Anti-lock brake system	7
1 General notes for anti-lock brake system (ABS)	7
2 Notes for repair work on the ABS	8
3 Connecting VAS 5051 and selecting functions	9
4 Electrical/electronic components and locations	11
5 Assembly overview - hydraulic unit	13
5.1 ABS MK 25	13
6 Removing and installing parts of ABS system on front and rear axle	23
6.1 Removing and installing speed sensor on front axle	23
6.2 Removing and installing parts of ABS system on rear axle	24
6.3 Removing and installing speed sensor on rear axle	25
7 Removing and installing parts of ESP system	26
7.1 Removing and installing ESP sensor unit G419	26
7.2 Removing and installing steering angle sender G85	27
46 - Brakes - mechanism	28
1 Repairing front brakes	28
1.1 Assembly overview - front brake, Brembo 17"	28
1.2 Removing and installing brake pads or linings	29
1.3 Removing and installing brake caliper	32
1.4 Assembly overview - front brake, Brembo 18"	34
1.5 Removing and installing brake pads/linings	35
1.6 Removing and installing brake caliper	39
2 Repairing rear brakes	42
2.1 Assembly overview - rear brake caliper, 17"	42
2.2 Removing and installing brake pads or linings	44
2.3 Removing and installing brake caliper	46
2.4 Removing and installing brake shoes	48
2.5 Adjusting air gap	49
3 Repairing thread in brake caliper connection	52
3.1 Work instructions	52
4 Overview of electromechanical parking brake components	57
4.1 Removing and installing control unit for electromechanical parking brake J540	58
4.2 Removing and installing parking brake motor	58
5 Assembly overview - brake pedal	61
5.1 Separating brake pedal from brake servo	62



5.2	Removing and installing brake pedal	63
5.3	Adjusting brake pedal position sender G100 , LHD vehicles	64
5.4	Adjusting brake pedal position sender G100 , RHD vehicles	66
47 - Brakes - hydraulics	69
1	Repairing front brake calipers	69
1.1	Assembly overview - brake caliper, Brembo 17"	69
1.2	Assembly overview - brake caliper, Brembo 18"	69
1.3	Removing and installing piston for 17" and 18" Brembo caliper	70
2	Repairing rear brake calipers	73
2.1	Assembly overview - brake caliper, Brembo 17"	73
2.2	Removing and installing rear brake caliper piston	73
3	Pressurised leak test	76
4	Bleeding brake system	77
4.1	Bleeding brake system with brake filling and bleeding equipment VAS 5234	77
4.2	Changing brake fluid	79
5	Assembly overview - brake servo/brake master cylinder	80
5.1	Removing and installing brake light switch F , left-hand drive	81
5.2	Removing and installing brake light switch F , right-hand drive	82
6	Brake servo vacuum supply	84
6.1	Overview - vacuum pump for brake servo (diesel vehicles)	84
6.2	Assembly overview - vacuum pump for brakes V192	84
6.3	Removing and installing vacuum line with vacuum sender G608 , right-hand drive model	87
6.4	Checking brake servo vacuum system	88
6.5	Checking non-return valve	92
7	Removing and installing brake master cylinder	93
7.1	Removing and installing brake master cylinder, left-hand drive	93
7.2	Removing and installing brake master cylinder, right-hand drive vehicle	94
8	Removing and installing brake servo	98
8.1	Removing and installing brake servo, left-hand drive	98
8.2	Removing and installing brake servo, right-hand drive vehicle	99
9	Repairing brake lines	104
9.1	Assembly overview - flanging tool	104
9.2	Work instructions	105