



Contents

00 - Technical data	1
1 Brake allocation via PR No.	1
1.1 Front brakes	2
1.2 Rear brakes	5
2 Brake test	7
2.1 General	7
2.2 Test for vehicles with front-wheel drive.	7
2.3 Test for vehicles with four-wheel drive via a viscous clutch.	7
45 - Anti-lock brake system	9
1 General notes for anti-lock brake system (ABS)	9
1.1 ABS and ABS/EDL Bosch 5	9
1.2 ABS and ABS/EDL Bosch 5.3	9
1.3 ABS/EDL/TCS/ESP Bosch 5.3	10
2 Notes for repair work on ABS	12
3 Assembly overview - hydraulic units	13
3.1 ABS and ABS/EDL Bosch 5	13
3.2 ABS and ABS/EDL Bosch 5.3	15
3.3 ABS/EDL/TCS/ESP Bosch 5.3	18
4 Removing and installing parts of ABS system on front and rear axle	23
4.1 Removing and installing parts of ABS system on front axle	23
4.2 Removing and installing parts of ABS system on rear axle	24
5 Removing and installing parts of ESP system	27
5.1 Removing and installing yaw rate sender G202 and lateral acceleration sender G200 ..	27
5.2 Removing and installing control unit J104	28
5.3 Removing and installing steering angle sender G85	28
46 - Brakes - mechanism	30
1 Repairing front brakes	30
1.1 Front brake caliper distinguishing features	30
1.2 Repairing front brakes, 15" running gear, floating caliper brake Lucas C54	31
1.3 Removing and installing brake pads, 15" running gear, floating caliper brake Lucas C54	32
1.4 Repairing front brakes, 15" running gear, floating frame caliper brake Lucas RC 54	33
1.5 Removing and installing brake pads, 15" running gear, floating frame caliper brake Lucas RC 54	35
1.6 Repairing front brakes, 15" running gear, floating caliper brake FN 3	36
1.7 Removing and installing brake pads, 15" running gear, floating caliper brake FN 3	38
1.8 Repairing front brakes, 16" running gear, floating caliper brake FN 3	40
1.9 Removing and installing brake pads, 16" running gear, floating caliper brake FN 3	42
1.10 Repairing front brakes, 16" running gear, floating caliper brake FNR	44
1.11 Removing and installing brake pads, 16" running gear, floating caliper brake FNR	46
2 Repairing rear brakes	48
2.1 Repairing rear brakes, 15" running gear	48
2.2 Removing and installing brake pads, 15" running gear	50
2.3 Repairing rear brakes, 16" running gear	52
2.4 Removing and installing brake pads, 16" running gear	54
3 Repairing handbrake	58
3.1 Removing and installing handbrake lever	58
3.2 Removing and installing front handbrake cable	59
3.3 Removing and installing pull rod	60
3.4 Removing and installing rear handbrake cable	61



3.5	Adjusting handbrake	63
4	Assembly overview - brake pedal	64
4.1	Removing and installing brake pedal	65
47 - Brakes - hydraulics		66
1	Repairing front brake calipers	66
1.1	Repairing front brake calipers, 15" running gear, floating caliper brake Lucas C54	66
1.2	Removing and installing pistons for front brake calipers, 15" running gear, floating caliper brake Lucas C54	66
1.3	Repairing front brake calipers, 15" running gear, floating frame caliper brake Lucas RC 54	68
1.4	Removing and installing pistons for front brake calipers, 15" running gear, floating frame caliper brake Lucas RC 54	69
1.5	Repairing front brake calipers, 15" running gear, floating caliper brake FN 3	71
1.6	Removing and installing pistons for front brake caliper, 15" running gear, floating caliper brake FN 3	72
1.7	Repairing front brake calipers, 16" running gear, floating caliper brake FN 3	74
1.8	Removing and installing pistons for front brake caliper, 16" running gear, floating caliper brake FN 3	75
1.9	Repairing front brake calipers, 16" running gear, floating caliper brake FNR	77
1.10	Removing and installing pistons for front brake caliper, 16" running gear, floating caliper brake FNR	78
2	Repairing rear brake caliper	81
2.1	Removing and installing piston for rear brake caliper	82
2.2	Pressure leak test	84
3	Bleeding brake system	85
3.1	Bleeding brake system with brake filling and bleeding unit V.A.G 1869	85
3.2	Bleeding brake system without brake filling and bleeding unit	86
4	Assembly overview - brake pressure regulator	88
4.1	Adjusting the brake pressure regulator	89
5	Assembly overview - brake servo/brake master cylinder	94
5.1	Checking non-return valve	95
5.2	Removing and installing brake master cylinder	95
5.3	Removing and installing brake servo	96