



Contents

00 - Technical data	1
1 Safety information	1
1.1 Safety precautions when using testers and measuring instruments during a road test	1
1.2 Safety precautions when working on high-voltage system	1
1.3 Safety precautions when working in vicinity of high-voltage components	2
2 Identification	3
2.1 Allocation of PR number - brakes	3
3 Technical data	5
3.1 Technical data for brakes	5
4 Brake test	7
4.1 General information	7
4.2 Brake check on single-axle roller dynamometer	7
45 - Anti-lock brake system	8
1 General information	8
1.1 Repair instructions for repair work on ABS	9
2 Overview of fitting locations – ABS/ESP	11
3 Control unit and hydraulic unit	14
3.1 Assembly overview – control unit and hydraulic unit	14
3.2 Removing and installing ABS control unit J104 and ABS hydraulic unit N55	18
3.3 Connecting brake lines to hydraulic unit	30
4 Sensors	33
4.1 Assembly overview – speed sensor on front axle	33
4.2 Removing and installing speed sensors on front axle G45/G47	34
4.3 Assembly overview – speed sensors on rear axle	34
4.4 Removing and installing speed sensors on rear axle G44/G46	36
4.5 Removing and installing steering angle sender G85	37
4.6 Removing and installing yaw rate sender and lateral acceleration sender	37
46 - Brakes - mechanism	39
1 Front brake	39
1.1 Assembly overview – front brake	39
1.2 Removing and installing brake pads	41
1.3 Removing and installing brake caliper	43
2 Rear brake	48
2.1 Assembly overview - rear brakes	48
2.2 Resetting drum brakes	49
2.3 Removing and installing brake shoes	50
3 Parking brake	55
3.1 Assembly overview – parking brake	55
3.2 Removing and installing rear brake cable	56
3.3 Adjusting parking brake	60
4 Brake pedal	61
4.1 Assembly overview – brake pedal	61
4.2 Separating brake pedal from brake servo	63
4.3 Connecting brake pedal to brake servo	64
4.4 Removing and installing brake pedal	65
4.5 Removing and installing mounting bracket	66
47 - Brakes - hydraulics	68
1 Front brake caliper	68



1.1	Assembly overview – front brake caliper	68
1.2	Removing and installing brake caliper piston	68
2	Brake servo and brake master cylinder	71
2.1	Assembly overview – brake servo/brake master cylinder	71
2.2	Assembly overview – brake system pressure accumulator	75
2.3	Removing and installing brake system pressure accumulator VX70	76
2.4	Removing and installing brake servo	79
2.5	Removing and installing brake master cylinder	92
3	Brake lines	99
3.1	Repairing brake lines	99
4	Hydraulic system	105
4.1	General notes on brake fluid	105
4.2	Bleeding hydraulic system following standard procedure	105
4.3	Subsequent bleeding of hydraulic system	107
4.4	Pre-bleeding brake system pressure accumulator VX70	108
4.5	Leak test	109