



Contents

44 - Wheels, tyres, vehicle geometry	1
1 Tyre	1
1.1 Lettering on sidewall	1
1.2 Load index (LI)	3
1.3 Speed rating	4
1.4 EU tyre label	5
1.5 Tyre ageing	5
1.6 Tyre storage	5
2 Rims	7
2.1 Design - rims	7
2.2 Rim markings	7
2.3 Reconditioning alloy wheels	8
3 Wheel bolts / wheel nuts	9
3.1 Versions	9
3.2 Master sets for anti-theft wheel bolts	10
4 Tyre damage and wear	11
4.1 Permissible differences in tread depth	11
4.2 Tyre wear	11
4.3 Evaluating tyre damage and wear	12
5 Rough running and handling issues due to wheels / tyres	17
5.1 Performing road test before balancing wheels and dealing with rough running	17
5.2 Checking radial and lateral runout on wheel/tyre	17
5.3 Checking radial and lateral runout on rim	18
5.4 Identifying and remedying flat spots caused by storage and handling	19
5.5 Vehicle pulls to one side	20
6 Tyre assembly	24
6.1 Removing tyre sealant	24
6.2 Pressing tyre off	24
6.3 Removing tyre	25
6.4 Removing and installing valve	28
6.5 Bringing tyre up to assembly temperature	30
6.6 Fitting tyre	30
6.7 Match-mounting wheel and tyre	34
6.8 Removing and installing wheel caps - alloy wheels	35
6.9 Balancing wheel	36
6.10 Renewing trim elements	37