

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 Adapter sets for anti-theft wheel bolts	10
4 Tyre damage and wear	12
4.1 Permissible differences in tread depth	12
4.2 Tyre wear	12
4.3 Evaluating tyre damage and wear	13
5 Rough running and handling issues due to wheels/tyres	18
5.1 Performing road test before balancing wheels and dealing with rough running	18
5.2 Checking radial and lateral runout on wheel/tyre	18
5.3 Checking radial and lateral runout on rim	19
5.4 Identifying and remedying flat spots caused by storage and handling	20
5.5 Vehicle pulls to one side	21
6 Tyre assembly	25
6.1 Removing tyre sealant	25
6.2 Pressing tyre off	25
6.3 Removing tyre	26
6.4 Removing and installing valve	29
6.5 Bringing tyre up to assembly temperature	31
6.6 Fitting tyre	31
6.7 Match-mounting wheel and tyre	35
6.8 Removing and installing wheel caps - alloy wheels	36
6.9 Balancing wheel	37
6.10 Renewing trim elements	38