

Contents

00 - Technical data	1
1 Rear final drive identification	1
2 Code letters, allocation, transmission ratios, capacities	3
2.1 Audi A4 2001 ▶ – Code letters, allocation, transmission ratios, capacities	3
2.2 Audi Cabriolet 2003 ▶ – Code letters, allocation, transmission ratios, capacities	4
2.3 Audi A6 2005 ▶ – Code letters, allocation, transmission ratios, capacities	4
2.4 Audi A8 2003 ▶ – Code letters, allocation, transmission ratios, capacities	5
3 Transmission layout	6
4 General repair instructions	8
4.1 Contact corrosion!	8
4.2 Jacking mode (vehicles with pneumatic suspension)	8
4.3 Special tools	8
4.4 Components	8
39 - Final drive - rear differential	11
1 Servicing propshaft - overview	11
1.1 Removing and installing propshaft on Audi A4, Audi Cabriolet and Audi A6	12
1.2 Removing and installing propshaft on Audi A8	19
1.3 Detaching and attaching propshaft at rear final drive	26
2 Measuring and marking radial run-out at flange for propshaft	30
3 Checking gear oil in rear final drive	31
4 Exploded view - rear final drive on Audi A4, Audi Cabriolet and Audi A6	32
4.1 Removing rear final drive on Audi A4, Audi Cabriolet and Audi A6	32
5 Exploded view - rear final drive on Audi A8	37
5.1 Removing and installing rear final drive on Audi A8	38
6 Renewing flange shaft oil seals	42
6.1 Renewing flange shaft oil seals on Audi A4, Audi Cabriolet	42
6.2 Renewing flange shaft oil seals on Audi A6	46
6.3 Renewing flange shaft oil seals on Audi A8	48
7 Renewing oil seal for propshaft flange on rear final drive (rear final drive installed)	55
8 General overview - dismantling and assembling rear final drive	60
9 Exploded view - removing and installing differential	61
9.1 Removing differential	63
10 Exploded view - dismantling and assembling differential	65
11 Exploded view - removing and installing pinion shaft; dismantling and assembling pinion shaft	74
11.1 Removing and installing pinion shaft; dismantling and assembling pinion shaft	75
12 Adjusting pinion shaft and crown wheel	85
12.1 Adjustment and marking of final drive gear set	85
12.2 Position of shims	87
12.3 Table of adjustments	87
12.4 Recommended sequence for adjusting gear set	88
12.5 Adjusting pinion shaft	88
12.6 Adjusting crown wheel	93