

Contents

00 - Technical data	1
1 Identification	1
1.1 Gearbox identification	1
2 Technical data	2
2.1 Capacities	2
3 Overview - power transmission	3
3.1 Overview - power transmission, front-wheel drive	3
4 Safety information	4
4.1 General safety regulations	4
4.2 Safety precautions when working on vehicles with start/stop system	4
4.3 Safety precautions when using testers and measuring instruments during a road test	5
4.4 Safety precautions when working on mechatronic unit	5
4.5 Safety precautions when tow-starting and towing	6
5 Repair instructions	7
5.1 General notes	7
5.2 Rules for cleanliness	11
5.3 General repair instructions	11
5.4 Contact corrosion	13
5.5 Use of impact wrenches	13
5.6 Identification plates	14
30 - Clutch	15
1 Clutch	15
1.1 Assembly overview - dual clutch	15
1.2 Removing dual clutch	17
1.3 Installing dual clutch	21
1.4 Renewing input shaft oil seal	27
1.5 Renewing oil seal for inner input shaft	29
2 Clutch mechanism	32
2.1 Assembly overview - clutch engagement mechanism	32
2.2 Removing and installing clutch engagement mechanism	33
2.3 Adjusting clutch engagement mechanism	37
34 - Controls, housing	52
1 Transporting gearbox	52
2 Securing to engine and gearbox support	54
3 Mechatronic unit	56
3.1 Assembly overview - mechatronic unit	56
3.2 Removing and installing mechatronic unit	58
3.3 Moving mechatronic unit into removal position by hand	67
3.4 Renewing boot together with clutch actuator	70
3.5 Renewing mechatronic unit control unit	76
3.6 Basic settings for dual clutch gearbox	80
4 Gear oil	83
4.1 Draining and filling hydraulic fluid for mechatronic unit	83
35 - Gears, shafts	86
1 Parking lock	86
1.1 Removing and installing cover for parking lock	86
1.2 Removing and installing parking lock	87
39 - Final drive - differential	88



1	Oil seals	88
1.1	Overview of fitting locations - oil seals	88
1.2	Renewing left oil seal	88
1.3	Renewing right oil seal	90
2	Differential	93
2.1	Assembly overview - differential	93
2.2	Removing and installing left flange shaft	95
2.3	Removing and installing right flange shaft	96
2.4	Removing and installing stub shaft	97