



Contents

00 - Technical data	1
1 Safety information	1
1.1 General safety provisions	1
1.2 Safety measures when working on vehicles with a start/stop system	2
1.3 Safety precautions when tow-starting or towing	2
1.4 Safety precautions when using testers and measuring instruments during a road test	2
2 Identification	4
2.1 Gearbox identification	4
3 Repair instructions	7
3.1 General repair instructions	7
3.2 Gaskets and seals	8
3.3 Nuts and bolts	8
4 Technical data	9
4.1 Allocation gearbox - engine	9
4.2 Capacities	9
5 Electrical components	10
5.1 Overview of fitting locations - electrical components	10
30 - Clutch	11
1 Clutch	11
1.1 Assembly overview - dual clutch	11
1.2 Removing and installing clutch end cover	13
1.3 Removing dual clutch	17
1.4 Installing dual clutch	18
34 - Controls, housing	24
1 Mechatronic unit	24
1.1 Assembly overview - mechatronic unit	24
1.2 Removing and installing sump	26
1.3 Removing and installing mechatronic unit for dual clutch gearbox J743	29
2 Selector mechanism	49
2.1 Assembly overview - selector mechanism	49
2.2 Emergency release from position P	52
2.3 Removing and installing selector lever handle	54
2.4 Moving push-button in the handle to installation position	57
2.5 Removing and installing selector mechanism	59
2.6 Removing and installing gear selector cable	65
2.7 Checking selector mechanism	69
2.8 Checking and adjusting selector lever cable	70
2.9 Renewing oil seal for selector shaft	72
3 Removing and installing gearbox	75
3.1 Removing gearbox	75
3.2 Install gearbox	113
3.3 Specified torques for gearbox	116
4 Assembly mountings	117
4.1 Assembly overview - assembly mountings	117
5 Transporting gearbox	119
6 Dismantling and assembling gearbox	120
6.1 Assembly overview - gearbox	120
7 Installing to engine and gearbox support	123
8 Gear oil circuit	124



8.1	Removing and installing gear oil cooler	124
8.2	Removing and installing cover for gear oil pump	126
8.3	Removing and installing gear oil pump	128
8.4	Removing and installing gear oil filter	129
9	Gear oil	131
9.1	Checking gear oil level	131
9.2	Draining and filling gear oil	134
35	Gears, shafts	139
1	Currently, no repairs can be made to gears and shafts	139
39	Final drive - differential	140
1	Oil seals	140
1.1	Overview of fitting locations - seals	140
1.2	Renewing left oil seal	140
1.3	Renewing right oil seal	143