



Contents

00 - Technical data	1
1 Safety information	1
1.1 General safety provisions	1
1.2 Safety measures when working on vehicles with start/stop system	1
1.3 Safety precautions when using testers and measuring instruments during a road test	2
1.4 Safety precautions when tow-starting or towing	2
2 Identification	3
2.1 Gearbox identification	3
3 Repair notes	4
3.1 General information	4
3.2 General repair instructions	5
3.3 Gaskets and seals	6
3.4 Nuts and bolts	6
4 Technical data	8
4.1 Capacities	8
5 Overview - power transmission	10
5.1 Overview - power transmission	10
30 - Clutch	11
1 Clutch mechanism	11
1.1 Assembly overview - clutch engagement	11
1.2 Removing and installing clutch engagement	13
1.3 Adjusting clutch engagement	17
2 Clutch	34
2.1 Assembly overview - dual clutch	34
2.2 Removing dual clutch	36
2.3 Installing dual clutch	42
2.4 Renewing input shaft seal	47
2.5 Renewing oil seal for inner input shaft	50
34 - Controls, housing	53
1 Mechatronic unit	53
1.1 Assembly overview - mechatronic unit	53
1.2 Removing and installing mechatronic unit for dual clutch gearbox J743	56
1.3 Moving mechatronic unit for dual clutch gearbox J743 into removal position by hand	72
1.4 Renewing clutch actuator	74
1.5 Renewing control unit for mechatronic unit for dual clutch gearbox J743	81
2 Selector mechanism	87
2.1 Assembly overview - selector mechanism	87
2.2 Manual release from position P	88
2.3 Removing and installing selector mechanism	89
2.4 Checking selector mechanism	93
2.5 Adjusting selector lever cable	95
2.6 Renewing selector shaft seal	96
3 Removing and installing gearbox	97
3.1 Removing gearbox	97
3.2 Installing gearbox	109
3.3 Specified torques for gearbox	114
4 Assembly mountings	115
4.1 Assembly overview - assembly mountings	115
5 Transporting gearbox	118



6	Securing to engine and gearbox support	121
7	Gear oil	124
7.1	Draining and filling gear oil	124
7.2	Draining and filling hydraulic fluid for mechatronic unit	127
35	Gears, shafts	131
1	Parking lock	131
1.1	Removing and installing cover for parking lock	131
1.2	Removing and installing parking lock	133
39	Final drive - differential	135
1	Seals	135
1.1	Overview of fitting locations - seals	135
1.2	Renewing left seal	135
1.3	Renewing right seal	139