

Contents

00 - Technical data	1
1 Identification	1
1.1 Gearbox identification	1
2 Technical data	3
2.1 Capacities	3
3 Overview - power transmission	5
3.1 Overview - power transmission, front-wheel drive	5
4 Safety information	6
4.1 General safety regulations	6
4.2 Safety precautions when working on vehicles with start/stop system	6
4.3 Safety precautions when using testers and measuring instruments during a road test	6
4.4 Safety precautions when working on mechatronic unit for dual clutch gearbox J743	7
4.5 Notes on tow-starting and towing	8
5 Repair instructions	9
5.1 General notes	9
5.2 Rules for cleanliness	12
5.3 General repair instructions	13
5.4 Contact corrosion	14
5.5 Use of impact wrenches	14
30 - Clutch	16
1 Clutch	16
2 Clutch mechanism	17
34 - Controls, housing	18
1 Selector mechanism	18
1.1 Assembly overview - selector lever handle	18
1.2 Assembly overview - selector mechanism	19
1.3 Manual release from position P	21
1.4 Removing and installing selector lever handle	22
1.5 Bringing interlock button in handle into installation position	25
1.6 Removing and installing selector mechanism	27
1.7 Checking selector mechanism	29
1.8 Checking and adjusting selector lever cable	31
1.9 Renewing selector shaft oil seal	33
2 Removing and installing gearbox	34
2.1 Removing gearbox	34
2.2 Installing gearbox	41
2.3 Tightening torques for gearbox	44
3 Transporting gearbox	46
4 Securing to engine and gearbox support	47
5 Assembly mountings	48
5.1 Assembly overview - assembly mountings	48
6 Gear oil	50
6.1 Draining and filling gear oil	50
7 Mechatronic unit	54
7.1 Assembly overview - mechatronic unit	54
7.2 Removing and installing mechatronic unit	54
7.3 Moving mechatronic unit for dual clutch gearbox J743 into removal position by hand	56
35 - Gears, shafts	57



1	Parking lock	57
1.1	Removing and installing cover for parking lock	57
1.2	Removing and installing parking lock	58
39	Final drive - differential	59
1	Gearbox control system	59
1.1	Overview of fitting locations - gearbox control system	59
2	Oil seals	60
2.1	Overview of fitting locations - oil seals	60
2.2	Renewing left oil seal	60
2.3	Renewing right oil seal	60
3	Differential	61
3.1	Assembly overview - differential	61
3.2	Removing and installing left flange shaft	61
3.3	Removing and installing right flange shaft	65