



Contents

00 - Technical data	1
1 Repair instructions	1
1.1 Rules for cleanliness	1
1.2 General repair instructions	1
1.3 Contact corrosion	3
30 - Clutch	4
1 Clutch	4
1.1 Exploded view - flywheel and dual clutch	4
1.2 Removing and installing flywheel	5
1.3 Removing dual clutch	7
1.4 Installing dual clutch	10
34 - Controls, housing	13
1 Mechatronic unit	13
1.1 Exploded view - mechatronic unit	13
1.2 Removing and installing oil pan	17
1.3 Removing and installing ATF filter	18
1.4 Removing and installing mechatronic unit	19
1.5 Exploded view - printed circuits for mechatronic unit	27
1.6 Removing and installing printed circuits for mechatronic unit	30
1.7 Removing and installing exchangeable ATF filter	32
2 Transporting gearbox	37
3 Dismantling and assembling gearbox	39
3.1 Exploded view - transmission unit	39
3.2 Removing and installing sensor module with integrated senders and sensors G612 , G632 , G676 and printed circuit 3	41
3.3 Removing and installing oil pump and suction-jet pump	53
3.4 Renewing oil seals for partition in gearbox housing	56
4 Securing to engine and gearbox support	60
5 ATF	62
5.1 Exploded view - ATF drain, filler and inspection plugs	62
5.2 Draining and filling ATF	62
35 - Gears, shafts	65
1 Input shaft	65
1.1 Renewing ball bearing for input shaft	65
1.2 Renewing input shaft oil seal	68
39 - Final drive - front differential	70
1 Final drive	70
1.1 Exploded view - final drive	70
2 Gear oil	72
2.1 Exploded view - gear oil drain and inspection plugs	72
2.2 Draining and filling gear oil	72
2.3 Removing and installing gearbox oil temperature sender 2 G754	75
3 Oil seals	77
3.1 Renewing oil seal (left-side)	77
3.2 Renewing oil seal (right-side)	79
3.3 Renewing selector shaft oil seal	80
4 Differential	81
4.1 Removing and installing flange shaft (left-side)	81



4.2	Checking and adjusting preload of ball bearing for flange shaft (left-side)	83
4.3	Renewing mounting bracket and ball bearing for flange shaft (left-side)	89
4.4	Removing and installing flange shaft (right-side)	91
5	Centre differential	94
5.1	Exploded view - centre differential	94
5.2	Removing and installing centre differential	98
5.3	Servicing centre differential housing	105
5.4	Renewing oil seal for rear splined shaft	113