

Contents

00 - Technical data	1
1 Gearbox identification	1
2 Notes on 6-speed automatic gearbox 09D	2
3 Transmission layout	3
4 Code letters, gearbox allocation, transmission ratios, equipment	4
5 Capacities	6
6 Safety precautions	7
7 Notes on tow-starting and towing	8
8 Repair instructions	9
8.1 Contact corrosion!	9
8.2 General repair instructions	9
8.3 Rules for cleanliness when working on the gearbox	11
8.4 Gearbox adaption	11
32 - Torque converter	13
1 Exploded view - torque converter	13
1.1 Draining torque converter	13
1.2 Renewing oil seal for torque converter	14
1.3 Checking torque converter	15
1.4 Installing torque converter	15
37 - Controls, housing	18
1 Electrical/electronic components and fitting locations	18
1.1 Removing and installing automatic gearbox control unit J217	20
2 Exploded view - selector mechanism (complete)	22
2.1 Removing and installing shift unit	23
2.2 Removing and installing base for shift unit	28
3 Checking selector mechanism	30
3.1 Checking operation of selector mechanism	30
3.2 Checking ignition key removal lock	31
3.3 Checking interlock button on selector lever handle	31
3.4 Operating manual release for selector mechanism	32
4 Exploded view - selector lever handle, selector lever boot and selector lever position display Y26	34
4.1 Removing and installing selector lever handle	34
4.2 Detaching selector lever boot from selector lever handle	37
4.3 Removing and installing selector lever position display Y26	37
4.4 Removing and installing selector lever sensors control unit J587 and tiptronic switch F189	38
5 Exploded view - dismantling and assembling shift unit	39
5.1 Removing and installing gearshift gate	40
5.2 Removing and installing locking lever for selector position "P"	44
5.3 Removing and installing selector lever lock solenoid N110	45
5.4 Removing and installing gear selector position P switch F305	49
6 Exploded view - selector lever cable	52
6.1 Removing and installing selector lever cable	53
6.2 Adjusting selector lever cable	56
7 Removing and installing gearbox	58
7.1 Removing gearbox - vehicles with 6-cyl. 3.0 ltr. TDI engine	58
7.2 Installing gearbox - vehicles with 6-cyl. 3.0 ltr. TDI engine	67
7.3 Removing gearbox - vehicles with 8-cyl. 4.2 ltr. TDI engine	71



7.4	Installing gearbox - vehicles with 8-cyl. 4.2 ltr. TDI engine	81
7.5	Removing and installing gearbox - vehicles with 8-cyl. 4.2 ltr. FSI engine	86
8	Transporting gearbox	88
9	ATF level in gearbox	89
9.1	Checking and topping up ATF level	89
9.2	Draining ATF and filling up after repairs	93
10	ATF lines and ATF cooler	97
10.1	Exploded view - ATF lines for vehicles with 6-cyl. 3.0 ltr. TDI engine	97
10.2	Exploded view - ATF lines for vehicles with 8-cyl. 4.2 ltr. TDI engine	98
10.3	Exploded view - ATF lines for vehicles with 8-cyl. 4.2 ltr. FSI engine	100
10.4	Removing and installing ATF lines and ATF cooler	103
10.5	Modifying ATF lines with union nuts for ATF cooler with clamp connections	106
10.6	Cleaning ATF lines and ATF coolers	108
11	Renewing oil seal for output shaft	110
38 - Gears, control		112
1	Exploded view - oil pan, ATF strainer and valve body	112
1.1	Removing and installing oil pan	114
1.2	Removing and installing ATF strainer	115
1.3	Removing and installing automatic gearbox hydraulic pressure sender 1 G193 and automatic gearbox hydraulic pressure sender 2 G194	116
1.4	Overview - valve body	117
1.5	Removing and installing valve body	118
1.6	Removing and installing gearbox output speed sender G195	120
2	Exploded view - gearbox selector lever and multifunction switch F125	122
2.1	Removing and installing multifunction switch F125	123
2.2	Adjusting multifunction switch F125	127
2.3	Removing and installing gearbox selector lever	130
2.4	Renewing oil seal (left-side) for selector shaft	133
2.5	Renewing oil seal (right-side) for selector shaft	133