



Contents

1	Engine list	1
2	Service work	4
2.1	Information about flexible or fixed service	4
2.2	Service tables	6
3	General information	20
3.1	Raising vehicle with lifting platform or trolley jack	20
3.2	Stickers	21
3.3	Connecting vehicle diagnostic tester	23
3.4	Vehicle identification number	24
3.5	Vehicle data sticker	25
3.6	Countries with hot climate	26
3.7	Country overview for diesel not compliant with EN 590	26
3.8	Country overview for petrol not compliant with EN 228	27
3.9	Engine code and engine number	28
3.10	Severe operating conditions	28
3.11	Countries with high levels of dust	29
3.12	Type plate	30
3.13	Shortened intervals for spark plug replacement	30
3.14	Jacking up mode: switching self-levelling suspension off and on	33
4	Descriptions of work	35
4.1	Swivel joints, axle mountings, coupling rod bearings and anti-roll bar rubber mounting: inspecting for damage	37
4.2	Automatic headlight control and static cornering light: checking function	38
4.3	Automatic gearbox: changing ATF (0C8 gearbox)	39
4.4	Battery: checking charge level	39
4.5	Battery beneath driver seat: inspecting and checking with battery tester with printer VAS 6161	39
4.6	Status of battery: reading, sending diagnosis protocol online	41
4.7	Tyres: checking condition, wear pattern, tyre pressure, tread depth and age of tyres	41
4.8	Front passenger front airbag: checking key switch and "ON/OFF function"	50
4.9	Brake system and shock absorbers: inspecting for leaks and damage	51
4.10	Changing brake fluid	52
4.11	Brake fluid level (dependent upon brake pad/lining wear): check.	56
4.12	Brakes, front and rear: checking thickness of brake pads and condition of brake discs ..	58
4.13	Diesel particulate filter: Check	60
4.14	Electric windows: checking positioning (open and close functions)	61
4.15	Fault memory of all systems: reading with vehicle diagnostic tester, correcting possible faults according to repair guidelines	61
4.16	Bonnet catch hook: grease.	62
4.17	Gearbox, final drive and drive shaft boots: inspect for leaks and damage.	62
4.18	Hybrid components: inspect for damage to high-voltage components and wires.	63
4.19	Interior and exterior body: inspecting for corrosion with doors and flaps open	63
4.20	Poly V-belt: renewing	64
4.21	Poly V-belt: checking condition	64
4.22	Poly V-belt for compressor: renew	65
4.23	Diesel fuel filter: draining	65
4.24	Diesel fuel filter: renewing (diesel engine)	68
4.25	Cooling system: checking frost protection and coolant level	72
4.26	Air suspension: checking for leaks and damage	75
4.27	Air filter: cleaning housing and renewing filter element	75
4.28	Multi-purpose additive for diesel fuel: adding	90
4.29	Multi-purpose additive for petrol fuel: adding	92
4.30	Engine oil level: checking	93
4.31	Draining or extracting engine oil, renewing oil filter and replenishing engine oil	94



4.32	Engine oil: capacities and specifications	105
4.33	Engine cover panel and design cover - top: removing and installing	106
4.34	Engine cover - bottom (noise insulation): removing and installing	110
4.35	Engine and components in engine compartment: inspecting for leaks and damage (from above and below)	111
4.36	Panorama sliding roof with rear panorama roof	112
4.37	Road test: performing (driving behaviour, noises, air conditioner etc.)	114
4.38	Wheel securing bolts: tightening to specified torque	115
4.39	Reducing agent (AdBlue®/DEF): replenishing	119
4.40	Reducing agent (AdBlue®/DEF): changing	124
4.41	Tyre repair set: checking if bottle is damaged or used; checking shelf life of tyre sealant	125
4.42	Headlight adjustment: checking halogen headlights	125
4.43	Headlight adjustment: checking gas discharge headlights without DLA	130
4.44	Headlight adjustment: checking gas discharge headlights with DLA, adjusting if necessary	137
4.45	Headlight adjustment: checking fog lights	148
4.46	Sliding sunroof drains at front: check for blockage, clean if necessary	151
4.47	Window wash/wipe system and headlight washer system: checking function, park position and for damage, if necessary refilling fluid	151
4.48	Wiper blade protection: removing	156
4.49	Service interval display: Reset	160
4.50	Service interval display: recoding	161
4.51	Power assisted steering: checking fluid level	161
4.52	Track rod ends: checking clearance, firm seating and boots	163
4.53	Dust and pollen filter: cleaning housing and renewing filter element	164
4.54	Transportation mode: switching off	164
4.55	Underbody: inspecting for damage to underbody sealant, underbody panels, routing of lines, plugs	164
4.56	Warning stickers: checking	165
4.57	Water drain valves at rear: check for blockage, clean if necessary	166
4.58	Spark plugs: Renew	167
5	Exhaust emissions test	180
5.1	Exhaust emissions test for petrol engines	180
5.2	Exhaust emissions test for diesel engines	182
6	00 Periodic Technical Inspection (PTI)	185
7	Glossary	189
8	---Change history---	192