



## Contents

<b>1</b>	<b>Engine list</b>	<b>1</b>
<b>2</b>	<b>Service work</b>	<b>8</b>
2.1	Information about flexible or fixed service	8
2.2	Service tables	10
<b>3</b>	<b>General information</b>	<b>20</b>
3.1	General warnings for working on high-voltage system	20
3.2	Raising vehicle with lifting platform or trolley jack	20
3.3	Entries in service schedule	21
3.4	Severe operating conditions	21
3.5	Vehicle data sticker	22
3.6	Connecting vehicle diagnostic tester	23
3.7	Vehicle identification number	24
3.8	Countries with hot climate	25
3.9	Country overview for diesel not compliant with EN 590/EN 15940	26
3.10	Country overview for petrol not compliant with EN 228	27
3.11	Engine code and engine number	28
3.12	Countries with high levels of dust	28
3.13	Identification plate	29
3.14	Shortened intervals for spark plug replacement	30
<b>4</b>	<b>Descriptions of work</b>	<b>35</b>
4.1	Swivel joints and suspension link mountings: inspecting	37
4.2	All-wheel drive coupling: changing oil	39
4.3	Automatic headlight control and static cornering light: checking function	43
4.4	Automatic gearbox 09S: changing ATF	44
4.5	Battery (12V): checking battery terminal clamps for secure seating	44
4.6	Battery (12V): checking with battery tester (always refer to workshop manual)	48
4.7	Battery (12V): checking (only applies for Golf GTE)	48
4.8	Status of battery (12V): reading - sending diagnosis protocol via online connection	49
4.9	Front passenger front airbag: checking key switch and "ON/OFF function"	50
4.10	Tyres: checking condition, wear pattern, tyre pressure and tread depth	51
4.11	Brake and clutch system: changing brake fluid	65
4.12	Brake system and shock absorbers: inspecting for leaks and damage	71
4.13	Brake fluid level: checking	72
4.14	Brakes, front and rear: checking thickness of brake pads and condition of brake discs	73
4.15	Diesel fuel filter: draining	76
4.16	Diesel fuel filter: renewing	77
4.17	Diesel particulate filter: checking	79
4.18	Dual clutch gearbox 0DD: changing gear oil	79
4.19	Dual clutch gearbox 0GC: changing gear oil	79
4.20	Electric windows: checking positioning (open and close functions)	79
4.21	Fault memory of all systems: reading with vehicle diagnostic tester, correcting possible faults according to repair guidelines	80
4.22	Natural gas system: resetting interval display if a check in line with ECE ruling 110 has been carried out	80
4.23	Natural gas system: visually inspecting natural gas tank for corrosion and leakage	81
4.24	Natural gas system: checking wax layer between natural gas fuel tank and fuel tank shut-off valve	87
4.25	Natural gas tank: renewing	87
4.26	Natural gas filler connection and sealing cap: checking condition, if necessary cleaning and checking seal	88
4.27	Boots: inspecting	88
4.28	High-voltage battery: checking charge level	88
4.29	Maintenance of high-voltage battery	89
4.30	High-voltage battery: charging	89



4.31	Hybrid components: inspect for damage to high-voltage components and wires. ....	89
4.32	Interior and exterior body: inspecting for corrosion with doors and flaps open .....	90
4.33	Poly V-belt: renewing .....	90
4.34	Poly V-belt: checking condition .....	90
4.35	Poly V-belt and tensioning roller for belt-driven starter-alternator: renew .....	91
4.36	Poly V-belt and tensioning roller for belt-driven starter-alternator: check .....	91
4.37	Cooling system: checking frost protection and coolant level .....	94
4.38	Cooling system for high-voltage system: checking coolant additive and coolant level ....	97
4.39	Air filter: cleaning housing and renewing filter element .....	100
4.40	Multi-purpose additive for diesel fuel: adding .....	108
4.41	Multi-purpose additive for petrol fuel: adding .....	110
4.42	Engine and components in engine compartment: inspecting for leaks and damage (from above and below) .....	111
4.43	Engine cover panel "top": removing and installing .....	112
4.44	Engine data plate with Certification Test Group code: checking if fitted and for condition, also checking CTG code against the code in the engine control unit .....	115
4.45	Motor compartment cover (noise insulation) "bottom": removing and installing .....	116
4.46	Engine oil level: checking .....	116
4.47	Engine oil: draining, renewing oil filter and filling engine oil .....	117
4.48	Engine oil: capacities and specifications .....	127
4.49	Panoramic sliding sunroof .....	130
4.50	Panorama sliding roof with rear panorama roof .....	135
4.51	Road test: performing (driving behaviour, noises, air conditioner etc.) .....	137
4.52	Wheel securing bolts: tightening to specified torque .....	138
4.53	Reducing agent (AdBlue®/DEF): replenishing .....	139
4.54	Reducing agent (AdBlue®/DEF): changing .....	143
4.55	Tyre Pressure Loss Indicator: calibrating .....	143
4.56	Tyre repair set: checking .....	144
4.57	Window wash/wipe system: functional check .....	146
4.58	Headlight adjustment: checking LED headlights .....	149
4.59	Headlight adjustment: checking matrix LED headlights .....	153
4.60	Headlight adjustment: checking fog lights .....	159
4.61	Sliding sunroof drains at front: check for blockage, clean if necessary .....	160
4.62	Service interval display: resetting .....	161
4.63	Service interval display: recoding .....	161
4.64	Track rods: checking clearance, attachment and boots .....	163
4.65	Interior filter: cleaning housing and renewing filter element .....	163
4.66	Selective wheel torque control: changing oil in left and right clutch chambers .....	164
4.67	Selective wheel torque control: interrogating oil wear on left and right-hand side using vehicle diagnostic tester .....	164
4.68	Transportation mode: switching off .....	164
4.69	Transportation devices: removing blocking pieces .....	165
4.70	Clock and date: setting .....	166
4.71	Underbody: inspecting for damage to underbody sealant, underbody panels, routing of lines, plugs .....	167
4.72	Front differential lock: changing oil .....	167
4.73	Warning stickers, Golf GTE: checking .....	167
4.74	Toothed belt (petrol engines): renewing .....	167
4.75	Camshaft drive toothed belt (diesel engines): renewing .....	167
4.76	Spark plugs: renewing .....	168
<b>5</b>	<b>Exhaust emissions test .....</b>	<b>183</b>
5.1	Exhaust emissions test for petrol engines .....	183
5.2	Exhaust emissions test for diesel engines .....	185
<b>6</b>	<b>00 Periodic Technical Inspection (PTI) .....</b>	<b>189</b>
<b>7</b>	<b>Glossary .....</b>	<b>193</b>
<b>8</b>	<b>---Change history---</b> .....	<b>196</b>