

## Contents

<b>1</b>	<b>General information</b>	<b>1</b>
1.1	--- Change history ---	1
1.2	General notes on Maintenance Manuals	1
1.3	Cleaning engine	2
1.4	Engine number	2
1.5	Vehicle identification number	4
1.6	Vehicle data sticker	4
1.7	Warnings for high-voltage vehicles	5
<b>2</b>	<b>Preparations</b>	<b>10</b>
2.1	Vehicle: raising	10
2.2	Engine cover panel: removing and installing	12
2.3	Noise insulation: removing and installing	16
2.4	Window regulators: activating automatic open/close function	18
2.5	Vehicle diagnostic tester: connecting	18
<b>3</b>	<b>Maintenance</b>	<b>21</b>
3.1	Diesel particulate filter: reading out ash deposit volume	24
3.2	ERA-GLONASS: checking emergency call function	25
3.3	Event memory: reading out	26
3.4	Service interval display: resetting service event	27
3.5	Diagnostic work: performing	27
3.6	Transport mode: deactivating	28
3.7	Transport mode: checking activation and activating if necessary	28
3.8	Vehicle: cleaning interior and exterior	29
3.9	Shipping mode: deactivating	29
3.10	Battery: reading out status	30
3.11	Vehicle diagnosis: completing	31
3.12	Battery: checking electrolyte level	32
3.13	Battery: connecting stationary battery charger (min. 30A, charging voltage max. 14.8 V on IV characteristic curve)	35
3.14	Battery: determining and recording state of charge (SOC)	38
3.15	Mirror hanger indicating defective battery: renewing battery on affected vehicles	41
3.16	Data sheet for Radio Equipment Directive: printing and placing in glove compartment	41
3.17	Brake fluid: changing	42
3.18	Brake fluid (vehicles older than 12 months): changing	47
3.19	Brake fluid: checking fluid level	47
3.20	Brake system: checking condition of brake hoses, and checking that caps are fitted on bleeder screws	47
3.21	Brake pads: checking thickness	48
3.22	Brake discs: checking for surface rust and operating brakes to clean if necessary	49
3.23	Parking brake: releasing	50
3.24	Tyres: checking condition, age and wear pattern, and checking and recording tread depth	50
3.25	Tyres: checking tyre pressures and adjusting if necessary	52
3.26	Tyres (except spare wheel): checking tyre pressures and adjusting to 3.5 bar if necessary	53
3.27	Tyre Pressure Loss Indicator: storing changed tyre pressures	53
3.28	Tyre repair kit: checking that set is complete, and checking and recording expiry date	53
3.29	Wheel bolts: tightening to specified torque	54
3.30	Suspension struts on front and rear axle: removing locking elements and correctly fitting bump stops	55
3.31	Axles (front and rear): checking components for play, secure attachment and damage, and checking protective boots	57
3.32	Engine, gearbox, final drive and steering: checking for leaks and damage	61
3.33	Steering boots and inner hose clips: checking secure seating	62
3.34	Vehicle (from below): checking for damage	62



3.35	Underbody: checking trim, wheel housing liners, side members and pipes/wiring for damage, and checking that they are properly secured	62
3.36	Roof insert: checking operation	63
3.37	Roof insert - sliding/tilting sunroof: cleaning and lubricating	63
3.38	Roof insert - panoramic sliding sunroof: checking, cleaning and lubricating	66
3.39	Water drains - panoramic sliding sunroof: checking	70
3.40	Rear spoiler hinges: lubricating	71
3.41	Door hinges with separate door arrester: cleaning and lubricating	71
3.42	Bonnet arrester hook: lubricating	72
3.43	Windscreen/rear window washer system: checking spray pattern and adjusting if necessary	73
3.44	Wiper blades: checking for damage	75
3.45	Headlight washer system: checking operation	76
3.46	Headlights: checking for correct adjustment	76
3.47	Headlights and reversing lights, brake lights, side lights, number plate lights, turn signals, hazard warning lights: checking operation	77
3.48	Luggage compartment lighting: checking operation	79
3.49	Luggage compartment: removing protective film and felt pieces	80
3.50	Glove compartment light, interior lighting and reading light: checking operation	80
3.51	Horn: checking operation	81
3.52	Passenger airbag: checking key switch on/off and setting to "on"	81
3.53	Owner's literature: checking that all documents are present	82
3.54	Service wallet: affixing vehicle data sticker	82
3.55	Service Schedule: entering Delivery Inspection	82
3.56	Seat belts: checking retainers for latch plate and belt buckle, and checking locking action of automatic belt retractor	82
3.57	Vehicle interior: removing protective covers for seats and carpet	83
3.58	Vehicle interior: checking that it is clean and cleaning if necessary	83
3.59	Vehicle interior: removing any objects other than those protecting interior surfaces	83
3.60	Vehicle interior and exterior: checking for and documenting any damage	83
3.61	Instrument cluster: checking warning lamps	83
3.62	Warning triangle: checking availability	84
3.63	First-aid kit: checking and recording expiry date	84
3.64	Vehicle keys: checking operation and recording number of keys given to customer	84
3.65	Vehicle key: removing from ignition lock	85
3.66	Vehicle key(s), wheel covers and owner's literature: checking availability and recording number present	85
3.67	Sun visors: checking that they are folded up and folding up if necessary	85
3.68	Luggage compartment cover and sun blind: checking that they are rolled up and rolling up if necessary	85
3.69	Engine oil: draining	86
3.70	Engine oil: extracting	88
3.71	Engine oil: renewing oil filter	89
3.72	Engine oil: filling up	97
3.73	Engine oil: checking oil level and correcting if necessary	98
3.74	Poly V-belts for ancillaries: checking	100
3.75	Spark plugs: renewing	101
3.76	Coolant level: checking (coolant level must reach at least top marking on coolant expansion tank)	111
3.77	Air filter: renewing filter element and cleaning housing	114
3.78	Plenum chamber and water drains: checking for dirt	122
3.79	Dust and pollen filter: renewing	124
3.80	Fuel filter: draining	126
3.81	Fuel filter: renewing	127
3.82	Fuel tank: adding fuel additive	130
3.83	Reducing agent (AdBlue®): filling up tank completely	131
3.84	Vehicle doors: removing edge protection	135

3.85	Vehicle exterior: checking unprotected areas for dirt, and cleaning if necessary	135
3.86	Vehicle exterior: removing protective film, if present	135
3.87	Vehicle cover: checking position and correcting if necessary	136
3.88	Vehicle cover: removing according to manufacturer's instructions	136
3.89	Paintwork, trims, side windows and wiper blades: checking cleanliness	136
3.90	Body: checking vehicle paintwork for damage and corrosion from below and with bonnet, rear lid and doors open	136
3.91	Vehicles parked outdoors: locking	136
3.92	Road test	136
3.93	Stock vehicles: observing measures specified in maintenance table for stock vehicles (see "Before handing vehicle over to customer")	137
3.94	Accessories: installing	137
3.95	Protective display films: removing if present	138
3.96	"TQS – Documentation of the vehicle care" checklist: checking that list is present	138
3.97	"Stock vehicle maintenance" checklist: signing and placing in vehicle wallet	138
3.98	Cleaning and care: checking that required measures have been carried out on time	138
3.99	Stock vehicle care management: deciding and recording date of next check	138
3.100	Rear final drive: changing gear oil	139
3.101	Rear final drive: changing ATF	139
3.102	Display instruments: setting time and date	139
3.103	Manual gearbox/automatic gearbox: selecting 1st gear/park	139
3.104	Automatic gearbox (multitronic): changing ATF	139
3.105	Automatic gearbox (Tiptronic): changing ATF	139
3.106	Dual clutch gearbox (S tronic): changing ATF	139
3.107	Dual clutch gearbox (S tronic): changing ATF and renewing exchangeable ATF filter	139
3.108	Interior mirror: calibrating compass	140
3.109	Poly V-belt for supercharger with charge air coolers: renewing	140
3.110	Poly V-belt for ancillaries, belt tensioner, idler rollers and pulley for coolant pump: renewing	140
3.111	Poly V-belt for ancillaries: renewing	140
3.112	Poly V-belt for ancillaries and pulleys for coolant pump and power steering pump: renewing	140
3.113	Instrument cluster: resetting driver information system	141
3.114	Toothed belt for camshaft drive: renewing	141
3.115	Toothed belt for camshaft drive, and drive sprockets for camshaft, crankshaft and high-pressure pump: renewing	141
3.116	Toothed belt for camshaft drive and tensioning roller: renewing	141
3.117	Poly V-belt for ancillaries and pulley for power steering pump: renewing	141
<b>4</b>	<b>Exhaust emissions test</b>	<b>142</b>
4.1	Petrol engines: performing exhaust emissions test	142
4.2	Diesel engines up to EU5: performing exhaust emissions test	150
4.3	Diesel engines from EU6 onwards: performing exhaust emissions test	159
<b>5</b>	<b>Periodic technical inspection (PTI)</b>	<b>161</b>