

Contents

1	General information	1
1.1	--- Change history ---	1
1.2	General notes on Maintenance Manuals	2
1.3	Cleaning engine	2
1.4	Engine number	3
1.5	Vehicle identification number	4
1.6	Vehicle data sticker	5
1.7	Warnings for high-voltage vehicles	6
2	Preparations	12
2.1	Vehicle: raising	12
2.2	Engine cover panel: removing and installing	14
2.3	Noise insulation: removing and installing	15
2.4	Window regulators: activating automatic open/close function	17
2.5	Vehicle diagnostic tester: connecting	17
3	Maintenance	20
3.1	Diesel particulate filter: reading out ash deposit volume	24
3.2	Event memory: reading out	25
3.3	Static event memory: working through	25
3.4	ERA-GLONASS: checking emergency call function	26
3.5	ECE towing bracket: checking (if fitted)	26
3.6	Emergency call function: checking status LED (must be green before delivery to customer)	27
3.7	Service interval display: resetting service event	27
3.8	Diagnostic work: performing	28
3.9	Transport mode: deactivating	29
3.10	Transport mode: checking activation and activating if necessary	29
3.11	Shipping mode: deactivating	30
3.12	High-voltage battery: checking state of charge (recommendation: approx. 80% when delivering to customer)	30
3.13	High-voltage battery: charging	31
3.14	High-voltage battery on electric vehicles and hybrid vehicles: determining and recording state of charge (SOC)	31
3.15	High-voltage battery on electric vehicles and hybrid vehicles: charging to a state of charge (SOC) of 3/4 according to manufacturer's instructions	31
3.16	Battery: reading out status	32
3.17	Vehicle diagnosis: completing	32
3.18	Battery: checking electrolyte level	33
3.19	Battery: connecting stationary battery charger (min. 30A, charging voltage max. 14.8 V on IV characteristic curve)	35
3.20	Battery: determining and recording state of charge (SOC)	36
3.21	Mirror hanger indicating defective battery: renewing battery on affected vehicles	39
3.22	Certificate of conformity (COC): checking COC is present in vehicle	39
3.23	Connected gateway: renewing emergency battery, telematics	39
3.24	Connectivity box: checking emergency battery, telematics	40
3.25	Brake fluid: changing	40
3.26	Brake fluid (vehicles older than 12 months): changing	45
3.27	Brake fluid: checking fluid level	45
3.28	Brake system: checking condition of brake hoses, and checking that caps are fitted on bleeder screws	46
3.29	Brake pads: checking thickness	47
3.30	Brake discs: checking for surface rust and operating brakes to clean if necessary	48
3.31	Parking brake: releasing	49
3.32	Tyres: checking condition, age and wear pattern, and checking and recording tread depth	49
3.33	Tyres: checking tyre pressures and adjusting if necessary	50
3.34	Tyres (except spare wheel): checking tyre pressures and adjusting to 3.5 bar if necessary	51



3.35	Tyre Pressure Loss Indicator: storing changed tyre pressures	52
3.36	Tyre repair kit: checking that set is complete, and checking and recording expiry date	52
3.37	Wheel bolts: tightening to specified torque	53
3.38	Axles (front and rear): checking components for play, secure attachment and damage, and checking protective boots	53
3.39	Suspension struts on front and rear axle: removing locking elements and correctly fitting bump stops	58
3.40	Engine, gearbox, final drive and steering: checking for leaks and damage	60
3.41	Vehicle (from below): checking for damage	60
3.42	Underbody: checking trim, wheel housing liners, side members and pipes/wiring for damage, and checking that they are properly secured	61
3.43	Roof insert for panoramic sliding sunroof: checking operation	62
3.44	Roof insert - panoramic sliding sunroof: checking, cleaning and lubricating	62
3.45	Water drains - panoramic sliding sunroof: checking	66
3.46	Door hinges with separate door arrester: cleaning and lubricating	66
3.47	Windscreen/rear window washer system: checking spray pattern and adjusting if necessary	67
3.48	Wiper blades: checking for damage	69
3.49	Headlight washer system: checking operation	70
3.50	Headlights: checking for correct adjustment	70
3.51	Headlights and reversing lights, brake lights, side lights, number plate lights, turn signals, hazard warning lights: checking operation	71
3.52	Luggage compartment lighting: checking operation	73
3.53	Luggage compartment: removing protective film and felt pieces	73
3.54	Glove compartment light, interior lighting and reading light: checking operation	73
3.55	Horn: checking operation	74
3.56	Passenger airbag: checking key switch on/off and setting to "on"	74
3.57	Service disconnect: checking for dirt and damage	75
3.58	Owner's literature: checking that all documents are present	75
3.59	Service Schedule: affixing vehicle data sticker	75
3.60	Owner's Manual: attaching vehicle data sticker	75
3.61	Readiness for sending and receiving information: establishing	76
3.62	Cushions for outer head restraints in seat row 2: securing	77
3.63	Service Schedule: entering Delivery Inspection	77
3.64	Seat belts: checking retainers for latch plate and belt buckle, and checking locking action of automatic belt retractor	77
3.65	Vehicle interior: removing protective film (if present) and protective covers for seats	78
3.66	Vehicle interior: checking that it is clean and cleaning if necessary	78
3.67	Vehicle interior: removing any objects other than those protecting interior surfaces	78
3.68	Vehicle interior and exterior: checking for and documenting any damage	78
3.69	Instrument cluster: checking warning lamps	79
3.70	Warning triangle: checking availability	79
3.71	First-aid kit: checking and recording expiry date	79
3.72	Vehicle keys: checking operation and recording number of keys given to customer	79
3.73	Vehicle key: removing from ignition lock	80
3.74	Vehicle key(s), wheel covers and owner's literature: checking availability and recording number present	80
3.75	Sun visors: checking that they are folded up and folding up if necessary	80
3.76	Luggage compartment cover and sun blind: checking that they are rolled up and rolling up if necessary	80
3.77	Engine oil: draining	81
3.78	Engine oil: extracting	82
3.79	Engine oil: renewing oil filter	84
3.80	Engine oil: filling up	89
3.81	Engine oil: checking oil level and correcting if necessary	90
3.82	Spark plugs: renewing	91
3.83	Coolant level: checking (coolant level must reach at least top marking on coolant expansion tank)	96

3.84	Cooling system for high-voltage system: checking anti-freeze protection and coolant level, and correcting if necessary	99
3.85	Air filter: renewing filter element and cleaning housing	103
3.86	Plenum chamber and water drains: checking for dirt	110
3.87	Rear final drive: changing gear oil	111
3.88	Air quality package: renewing fragrance vials	111
3.89	Rear final drive: changing ATF	112
3.90	Dust and pollen filter: renewing	112
3.91	Fuel filter: renewing	114
3.92	Water separator (fuel filter): draining	117
3.93	Fuel tank: adding fuel additive	117
3.94	Reducing agent (AdBlue®): filling up tank completely	118
3.95	Vehicle doors: removing edge protection	123
3.96	Vehicle exterior: checking unprotected areas for dirt, and cleaning if necessary	123
3.97	Vehicle exterior: removing protective film, if present	123
3.98	Vehicle cover: checking position and correcting if necessary	124
3.99	Vehicle cover: removing according to manufacturer's instructions	124
3.100	Paintwork, trims, side windows and wiper blades: checking cleanliness	124
3.101	Body: checking vehicle paintwork for damage and corrosion from below and with bonnet, rear lid and doors open	124
3.102	Vehicles parked outdoors: locking	124
3.103	Emergency flare: fitted so it is visible from driver's seat or driver's entrance	124
3.104	Road test	124
3.105	Stock vehicles: observing measures specified in maintenance table for stock vehicles (see "Before handing vehicle over to customer")	125
3.106	Charging cable: checking that cable is present and complete	125
3.107	Charging system: checking that system is present and complete	126
3.108	Charging socket: checking for dirt and damage	126
3.109	Accessories: installing	126
3.110	Vehicle identification numbers: checking numbers match and are embossed properly	127
3.111	Checklist "Documentation of cleaning and care routine": checking that list is present	127
3.112	Seal on coolant expansion tank for high-voltage system: checking seal is present	127
3.113	"Stock vehicle maintenance" checklist: signing and placing in vehicle wallet	128
3.114	Cleaning and care: checking that required measures have been carried out on time	128
3.115	Stock vehicle care management: deciding and recording date of next check	128
3.116	Display instruments: setting time and date	128
3.117	Manual gearbox/automatic gearbox: selecting 1st gear/park	128
3.118	Interior mirror: calibrating compass	128
3.119	Poly V-belt for supercharger with charge air coolers: renewing	128
3.120	Poly V-belt for ancillaries: renewing	129
3.121	Poly V-belt for ancillaries, belt tensioner, idler rollers and pulley for coolant pump: renewing	129
3.122	Instrument cluster: resetting driver information system	129
4	Exhaust emissions test	130
4.1	Petrol engines: performing exhaust emissions test	130
4.2	Diesel engines: performing exhaust emissions test - up to EU5	138
4.3	Diesel engines: performing exhaust emissions test - from EU6 onwards	147
5	Periodic technical inspection (PTI)	149