



Contents

1	Engine list	1
1.1	Overview of engines - diesel engines	1
2	Service work	2
2.1	Information about flexible or fixed service	2
2.2	Service tables	5
2.3	Scopes of service	6
3	General information	13
3.1	“Vehicle data” sticker	13
3.2	Entries in the Digital Service Schedule	13
3.3	Vehicle diagnostic tester	14
3.4	Vehicle identification number	15
3.5	Vehicle data sticker	16
3.6	Severe operating conditions	16
3.7	Engine code and engine number	17
3.8	Identification plate	17
3.9	Tyre pressure sticker	18
3.10	Countries with high levels of dust	18
4	Descriptions of work:	23
4.1	Swivel joints and suspension link mountings: visual check	24
4.2	AdBlue® (reducing agent)	29
4.3	All-wheel drive coupling: changing oil	34
4.4	Raising vehicle with lifting platform and trolley jack	35
4.5	Reading ash mass (saturation level) of diesel particulate filter	46
4.6	8-speed automatic gearbox, AQ 450: changing oil	46
4.7	8-speed automatic gearbox, AL 550: changing oil	46
4.8	Battery: checking with battery tester (always refer to workshop manual)	47
4.9	Battery: checking battery terminal clamps for secure seating	47
4.10	Checking tyres: condition, wear pattern, tyre pressure, tread depth	51
4.11	Brake system and shock absorbers: inspecting for leaks and damage	56
4.12	Brake system and clutch mechanism: changing brake fluid	57
4.13	Brake fluid level: checking	60
4.14	Brakes, front and rear: checking thickness of brake pads and condition of brake discs ..	61
4.15	Electric windows: initialising (activation)	63
4.16	Fault memory of all systems: reading with vehicle diagnostic tester , correcting possible faults according to repair guidelines	64
4.17	Bringing ERA GLONASS into operation	64
4.18	Interior and exterior body: inspecting for corrosion with doors and flaps open	65
4.19	Poly V-belt: checking condition	66
4.20	Poly V-belt: renewing	66
4.21	Fuel filter: renewing	66
4.22	Fuel filter: draining water	66
4.23	Cooling system: checking frost protection and coolant level	68
4.24	Air filter: cleaning housing and renewing filter element	71
4.25	Engine and components in engine compartment: inspecting for leaks and damage (from above and below)	72
4.26	Engine oil level: checking	73
4.27	Engine oil: draining or extracting and replenishing; renewing oil filter	74
4.28	Engine oil: capacities and specifications	77
4.29	Breakdown set: checking	78
4.30	Carry out road test	78
4.31	Tyre Pressure Loss Indicator: calibrating	79
4.32	Spare wheel bracket: checking	79
4.33	Wheel securing bolts: tightening to specified torque	82



4.34	Window wash/wipe system and headlight washer system: checking function and settings; replenishing to maximum level	84
4.35	Headlight adjustment: checking and adjusting as necessary	88
4.36	Service interval display: resetting	94
4.37	Service interval display: recoding	95
4.38	Checking seat belts and belt buckles for external damage and function	97
4.39	Track rod ends: checking clearance, firm seating and boots	98
4.40	Dust and pollen filter (interior filter): cleaning housing and renewing filter element	99
4.41	Transportation mode: switching off	99
4.42	Doors: greasing door arrester	100
4.43	Vehicle underside (floor pan): visual check for damage	100
4.44	Camshaft drive toothed belt: checking condition	101
4.45	Camshaft drive toothed belt: renewing	102
5	Exhaust emissions test	103
5.1	Exhaust emissions test for diesel engines	103