



Contents

00 - Technical data	1
1 Engine number	1
2 Engine data	2
10 - Removing and installing engine	4
1 Removing and installing engine	4
1.1 Notes on removing	4
1.2 Notes on installing	5
1.3 Specified torques	7
1.4 Assembly mountings	7
1.5 Renewing engine carrier rubber mounting	8
1.6 Additional information and assembly work for vehicles with air conditioner	8
13 - Crankshaft group	10
1 Crankshaft group	10
1.1 Dismantling and assembling engine	10
1.2 Removing and installing poly V-belt	15
1.3 Removing, installing and tensioning toothed belt (adjusting valve timing)	16
2 Removing and installing sealing flange and pressure plate/drive plate	19
2.1 Renewing crankshaft oil seal - pulley end	21
2.2 Removing and installing drive plate	23
2.3 Removing and installing crankshaft	24
3 Dismantling and assembling pistons and conrods	27
3.1 Piston and cylinder dimensions	29
15 - Cylinder head, valve gear	30
1 Removing and installing cylinder head	30
1.1 Removing and installing cylinder head	31
1.2 Checking compression	33
2 Repairing valve gear	34
2.1 Assembly overview - valve gear	34
2.2 Reworking valve seats	38
2.3 Renewing camshaft oil seal	40
2.4 Removing and installing camshaft	42
2.5 Checking hydraulic bucket tappets	43
2.6 Checking valve guides	44
2.7 Renewing valve guides	44
2.8 Renewing valve stem seals	45
17 - Lubrication	46
1 Lubrication	46
1.1 Removing and installing parts of lubrication system	46
1.2 Checking oil pressure and oil pressure switch	49
19 - Cooling	50
1 Removing and installing parts of cooling system	50
1.1 Parts of cooling system, body side	50
1.2 Parts of cooling system, engine side	52
1.3 Dismantling and assembling coolant pump	53
1.4 Draining and filling with coolant	53
1.5 Removing and installing radiator and fan	55
20 - Fuel supply system	57



1	Removing and installing parts of fuel supply system	57
1.1	Removing and installing fuel tank with attachments and fuel filter, front-wheel drive	57
1.2	Removing and installing fuel tank with attachments and fuel filter, four-wheel drive	60
1.3	Safety precautions when working on fuel supply system	61
1.4	Rules for cleanliness	62
1.5	Removing and installing fuel tank, four-wheel drive	62
1.6	Adjusting accelerator cable	65
1.7	Removing and installing fuel delivery unit	66
1.8	Checking fuel pump	67
1.9	Removing and installing parts of activated charcoal filter system	71
26	- Exhaust system	74
1	Removing and installing parts of exhaust system, front-wheel drive	74
1.1	Exhaust manifold, front exhaust pipe and catalytic converter with attachments - engine codes AAM, ABS, ADZ, ANN, ANP	74
1.2	Exhaust manifold, front exhaust pipe and catalytic converter with attachments - engine codes 2E, ADY, AGG, AKR	76
1.3	Silencer with mountings - engine codes AAM, ANN	77
1.4	Silencer with mountings - engine codes ABS, ADZ, ANP	78
1.5	Silencer with mountings - engine codes 2E, ADY, AGG, AKR	79
2	Removing and installing parts of exhaust system, four-wheel drive	81
2.1	Exhaust manifold, front exhaust pipe and catalytic converter with attachments	81
2.2	Silencer with mountings	82