SEN05624-02

Shop Manual

ENGINE

125E -6 SERIES

KOMATSU®

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Index (ALL-0310-001-A-00-A)

00 Index and foreword 00-1
Index 00-2
Foreword, safety and general information 00-5
Important safety notice 00-5
How to read the shop manual 00-12
Explanation of terms for maintenance standard 00-13
Handling equipment of fuel system devices 00-15
Handling of intake system parts 00-16
Handling of hydraulic equipment 00-17
Method of disconnecting and connecting of push-pull type coupler 00-19
Handling of electrical equipment 00-22
How to read electric wire code 00-30
Precautions when performing operation 00-33
Standard tightening torque table 00-37
List of abbreviation 00-41
Conversion table 00-46
01 Specification 01-1
Table of contents 01-2
Specifications 01-3
Exhaust gas regulation 01-3
Applicable machines 01-6
Specifications 01-7
General view 01-10
Weight table 01-24
Engine performance curve 01-25
10 Structure and function 10-1
Table of contents 10-2
Components layout 10-3
Components layout drawing 10-3
Intake and exhaust system parts 10-6
Intake and exhaust system layout drawing 10-6
Intake and exhaust system circuit diagram 10-7
Air cleaner 10-9
KVGT 10-10
Aftercooler 10-16
EGR system piping drawing 10-17
EGR system circuit diagram 10-19
EGR valve 10-20
EGR cooler 10-22
Mixing connector 10-24
KCCV layout drawing 10-25
KCCV ventilator 10-27
KDPF 10-31
Engine main body parts 10-35
Cylinder head 10-35
Cylinder block 10-37
Main moving parts 10-39
Vibration damper 10-42
Timing gear 10-43
Front cover 10-45
Valve system 10-46
Flywheel and flywheel housing 10-49
Lubrication system 10-50
Lubrication system parts layout drawing 10-50
Lubrication system diagram 10-51
Oil pump 10-52
Boost oil pump 10-53
Oil filter 10-54

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Oil cooler 10-55
Oil cooler thermo-valve 10-56
Oil pan 10-57
Fuel system 10-58
Fuel system parts layout drawing 10-58
Fuel system circuit diagram 10-60
Outline of CRI system 10-63
Fuel dozing 10-76
Fuel cooler 10-79
Pre-filter 10-80
Main filter 10-81
Cooling system 10-82
Cooling system parts layout drawing 10-82
Cooling system circuit diagram 10-83
Water pump 10-84
Thermostat 10-85
Electrical equipment 10-87
Alternator 10-87
Alternator mounting 10-91
Starting motor 10-92
Fuel feed pump 10-96
Fuel feed pump switch 10-97
Engine wiring harness 10-98
Engine controller 10-100
Sensor 10-106
20 Standard value table 20-1
Table of contents 20-2
Standard service value table 20-3
Standard value table for engine 20-3
Running-in standard and performance test standard 20-9
50 Disassembly and assembly 50-1
Table of contents 50-2
General information on disassembly and assembly 50-3
How to read this manual 50-3
Coating materials list 50-5
Special tool list 50-9
Sketch of special tool 50-11
Disassembly and assembly 50-14
General disassembly of engine 50-14
General assembly of engine 50-35
Removal and installation procedure of supply pump as single component 50-80
Engine front oil seal replacement procedure 50-85
Engine rear oil seal replacement procedure 50-88
60 Maintenance standard 60-1
Table of contents 60-2
Intake and exhaust system parts 60-3
KVGT 60-3
Engine main body parts 60-4
Cylinder head 60-4
Cylinder block 60-5
Cylinder liner 60-7
Crankshaft 60-8
Cam follower and push rod 60-9
Piston 60-11
Connecting rod 60-13
Vibration damper 60-15
Timing gear 60-16
Camshaft 60-17
Valve and valve guide 60-18

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Rocker arm 60-20
Crosshead and guide 60-21
Flywheel 60-22
Lubrication system 60-24
Main relief valve 60-24
Safety valve 60-25
Cooling system 60-26
Oil cooler 60-26
Water pump 60-27
Thermostat 60-28
Index 1

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Dimensions table (ENG125-2110-2A4-A-00-A)

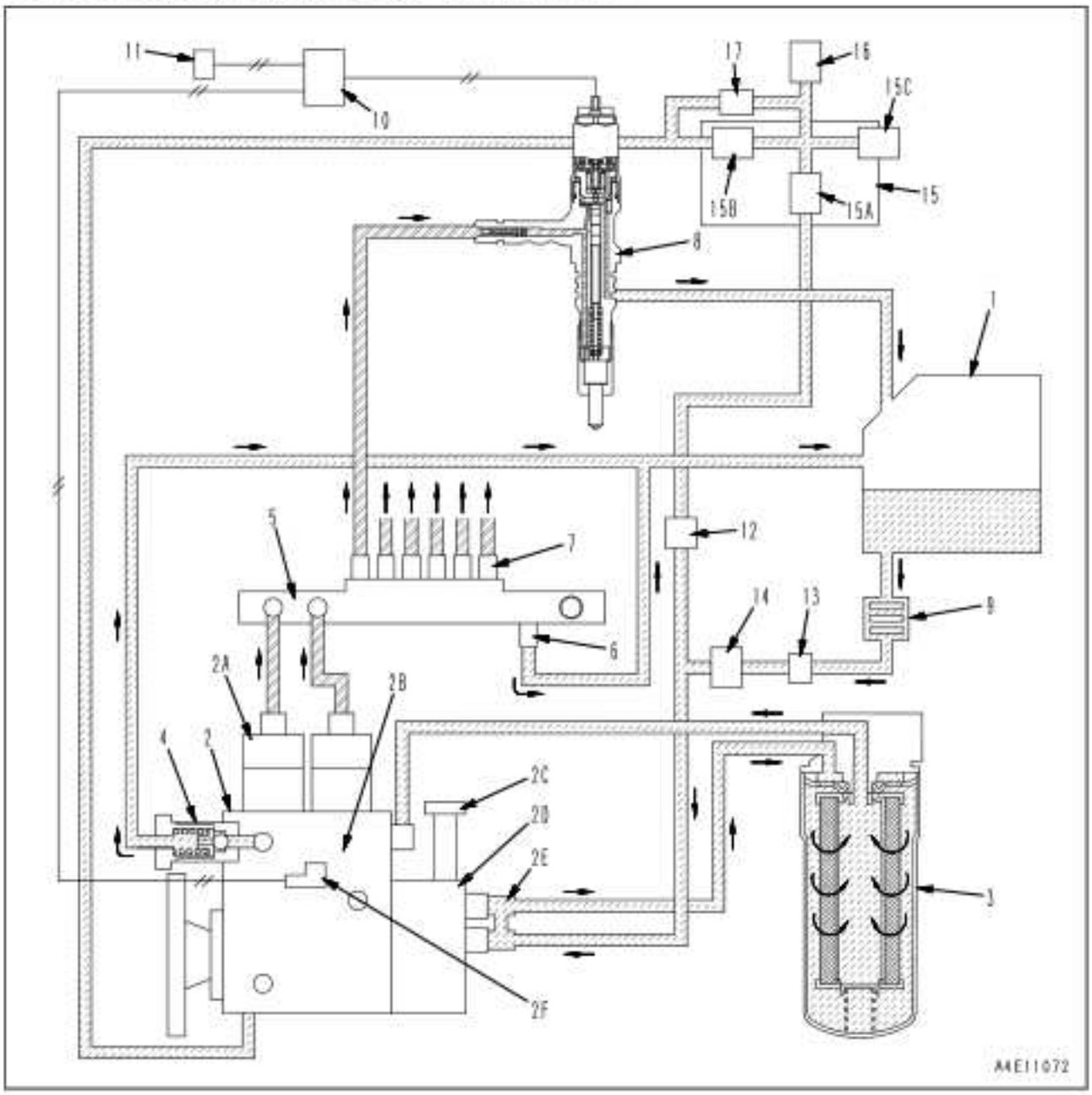
★ These dimensions are given for reference when the engine is set on a test bench.

Unit: mm

Engine	Machine model	Dimension of each part			
		A	B	C	D
SAA6D125E-6	PC490LC-10	1,722	1,776	441	1,169
	HM300-3	1,407	1,281	403	975
	WA470-7	1,376	1,629	390	1,015

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Fuel system circuit diagram (ENG125-AD00-052-K-00-A)



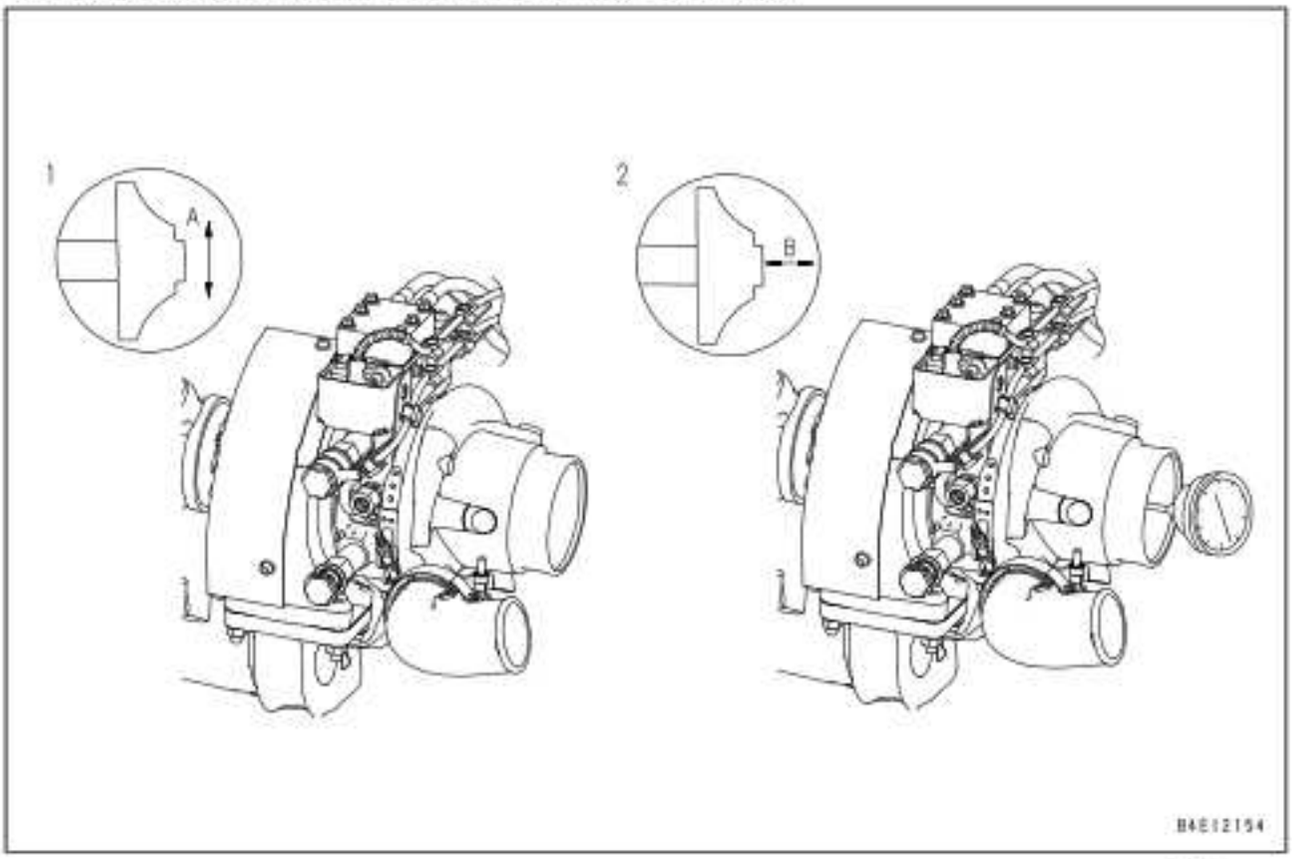
1. Fuel tank
2. Supply pump assembly
   - 2A. PCV
   - 2B. High pressure pump
   - 2C. Priming pump
   - 2D. Feed pump
   - 2E. Bypass valve
   - 2F. G speed sensor
3. Fuel filter
4. Overflow valve
5. Common rail
6. Pressure limiter
7. Flow damper
8. Injector assembly
9. Fuel cooler
10. Engine controller

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Intake and exhaust system parts (ENG107-A900-001-K-00-A)

KVGT (ENG125-AA10-034-K-00-A)

KVGT: Abbreviation for KOMATSU Variable Geometry Turbocharger



Unit: mm

No.	Item	Criteria	Remedy
1	Radial play (Play in radial direction)	Use light finger pressure to push the compressor wheel towards the side of the compressor housing. Repeat the procedure for the turbine wheel and housing. Either wheel shall not contact the housing.	Replace KVGT as an assembly (including hydraulic actuator, KVGT position sensor)
2	End play (play in axial direction)	0.47 to 0.67	
3	Check of KVGT opration (Check of nozzle ring operation)	If values of KDOC inlet temperature: approximately 250 °C or below and KVGT solenoid current: approximately 1000 mA remain unchanged after performing regeneration for service, KVGT is defective. (Since the time required for manual stationary regeneration depends on the accumulated soot level, see failure code CA2639)	

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