SEN06060-04

Shop Manual

ENGINE

95E -6 SERIES

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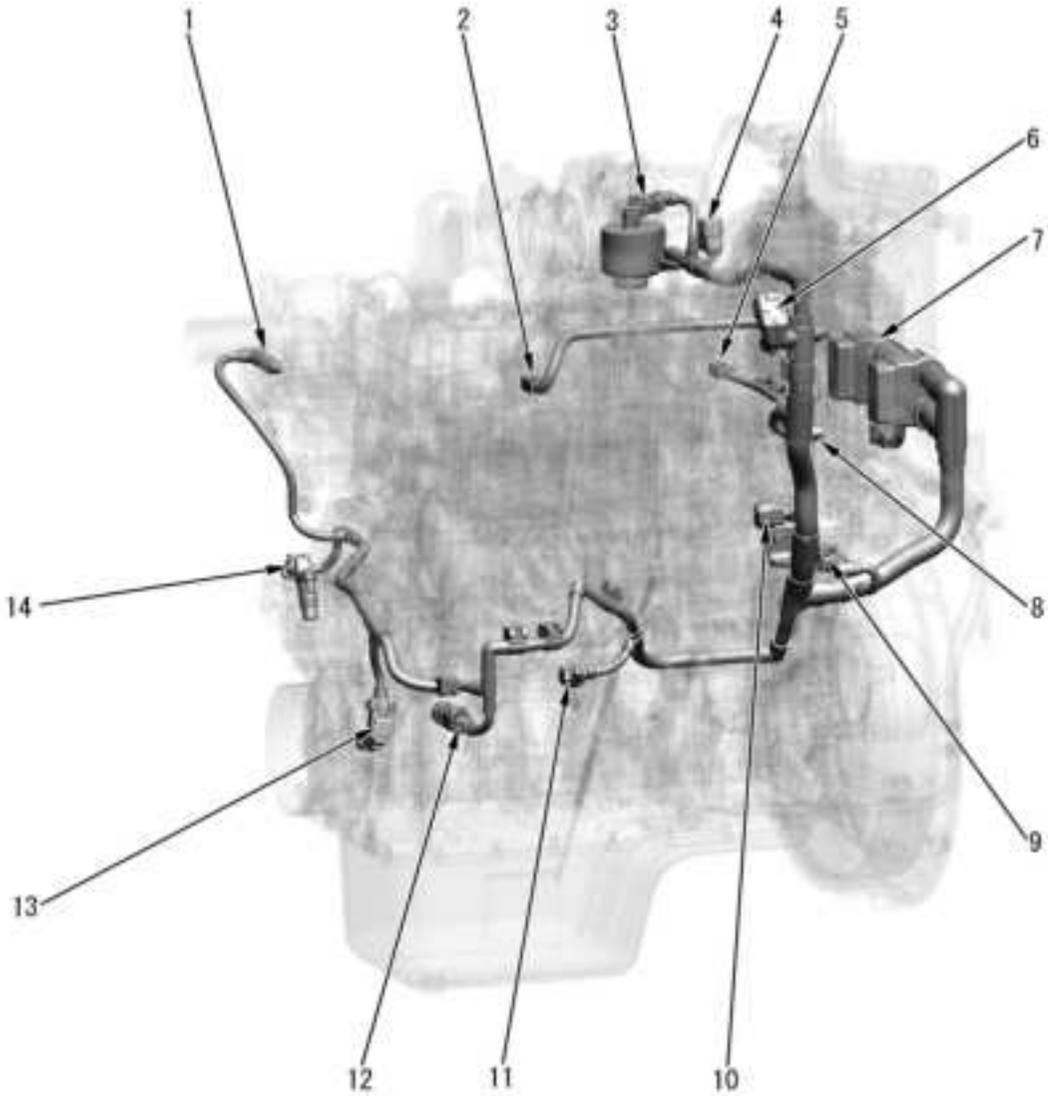
Applicable machines: D37EX-23, D37PX-23, D37EXI-23, D37PXI-23 (ENG95-2110-030-A-01-A)

Engine model			SAA4D95LE-6
No. of cylinders - bore x stroke		mm	4 - 95 x 115
Piston displacement		ℓ {cc}	3.260 {3,260}
Firing order		-	1 - 2 - 4 - 3
Dimensions	Overall length	mm	992
	Overall width	mm	741
	Overall height (excluding exhaust pipe)	mm	-
	Overall height (including exhaust pipe)	mm	1,139
Performance	Rated horsepower (Gross)	kW {HP} / min^{-1} {rpm}	67.7 {90.7} / 2,200 {2,200}
	Max. torque (Gross)	Nm {kgm} / min^{-1} {rpm}	415 {42.3} / 1,600 {1,600}
	Max. speed with no load (high idle speed)	min^{-1} {rpm}	2,400 ± 50 {2,400 ± 50}
	Min. speed with no load (low idle speed)	min^{-1} {rpm}	1,075 ± 25 {1,075 ± 25}
	Fuel consumption rate at rated horsepower	g/kWh {g/HPh}	228 {170}
Dry weight		kg	430
Fuel injection system		-	High-pressure common rail type
Fuel injection system control		-	Electronic control system
Lubricating oil capacity (refill capacity)		ℓ	12.5 {11.5}
Coolant capacity		ℓ	(For only engine: 5.5)
Alternator		-	24 V, 60 A
Starting motor		-	24 V, 4.5 kW
Variable flow turbocharger		-	TD04M4t-VFT

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Engine harness (ENG95-AK51-041-K-00-A)

★ The shape is subject to machine models.

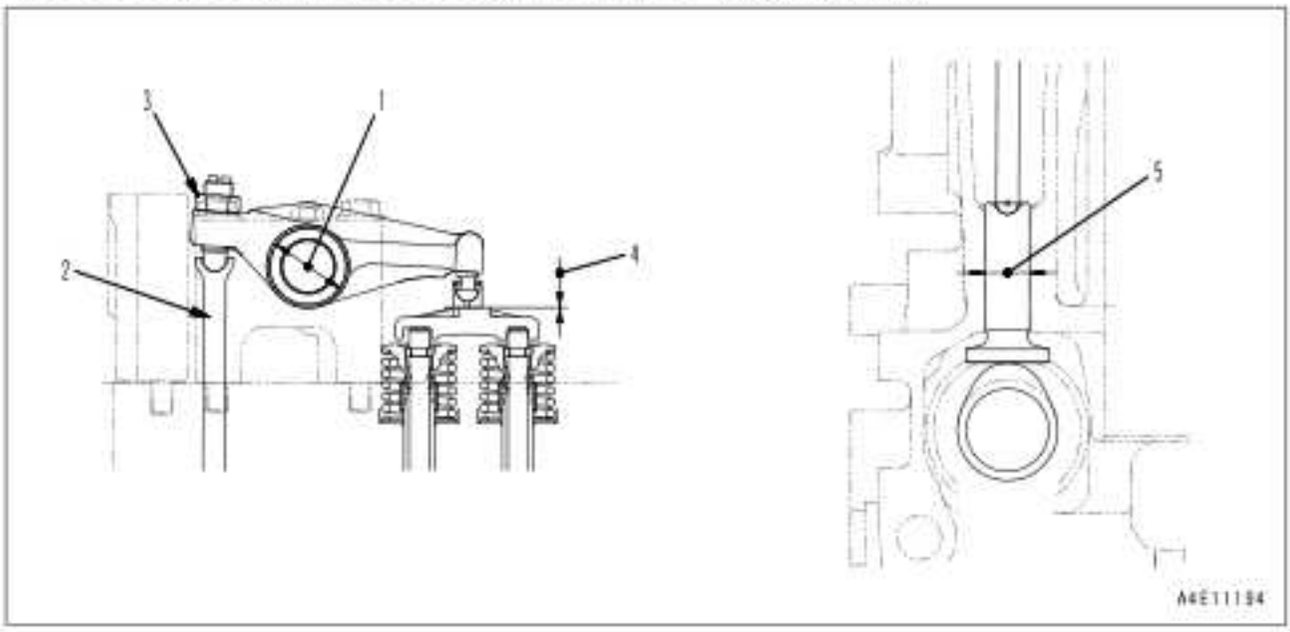


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1. To coolant temperature sensor
2. To injector (No.1, 2) wiring harness
3. To crankcase pressure sensor
4. To variable flow turbocharger
5. To injector (No.3, 4) wiring harness
6. To EGR valve
7. To engine controller
8. To charge (boost) pressure and temperature sensor
9. To ambient pressure sensor
10. To common rail pressure sensor
11. To supply pump SCV
12. To engine oil pressure switch

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Rocker arm shaft, push rod, and tappet (ENG95-A770-034-K-00-A)



Unit: mm

No.	Item	Criteria			Remedy
1	Outside diameter of rocker arm shaft	Standard dimension	Tolerance		Replace rocker arm shaft
		19	0 -0.020		
	Inside diameter of rocker arm shaft hole	19	+0.030 +0.010		Replace rocker arm
	Clearance between rocker arm shaft and rocker arm	Standard clearance	Allowable clearance		Replace rocker arm or shaft
		0.010 to 0.050	0.12		
	Bend of rocker arm shaft	Repair limit: 0.20 (total indicator reading)			
2	Bend of push rod	Repair limit: 0.30 (total indicator reading)			Replace push rod
3	Tightening torque of rocker arm nut	Target (Nm {kgm})	Range (Nm {kgm})		Tighten
		44 {4.5}	39 to 49 {4 to 5}		
4	Valve clearance (both in warm and cold states)	Valve	Standard	Tolerance	Adjust
		Intake	0.35	±0.02	
		Exhaust	0.50	±0.02	
5	Outside diameter of tappet	Standard dimension	Tolerance		Replace tappet
		16	-0.010 -0.028		
	Inside diameter of tappet hole	16	+0.020 +0.002		Replace cylinder block.
	Clearance between tappet and tappet hole	Standard clearance	Allowable clearance		Replace tappet or cylinder block
		0.012 to 0.048	0.12		

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