

# SHOP MANUAL

## KOMATSU

### 95 SERIES

### DIESEL ENGINE

ENGINE MODEL	APPLICABLE MACHINE MODEL
4D95S	FD20/25/30-10 FD20S/25S/30S-5
4D95L	FD20H/25H/30H-8
6D95L	FD35Z/40Z-4 FD35/40/45-4 FD33S/35S/40S/45S-4 FD50H/60H/70N-4 FD50/60-4 FD50E/60E/70E-5 FD50/60/70-5
S6D95L	SD23/25-3 FD60H/70H/80H-5

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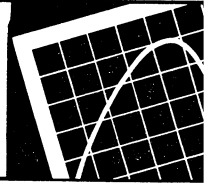
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# ENGINE

## 01 GENERAL

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## SPECIFICATIONS

Engine model		4D95S-1	4D95L-1
Applicable machine model		FD20/25/30-10 FD20S/25S/30S-5	FD20H/25H/30H-8
Number of cylinder – Bore x Stroke (mm)		4 – 95 x 95	4 – 95 x 115
Total piston displacement (cc)		2,690	3,260
Firing order		1 – 2 – 4 – 3	1 – 2 – 4 – 3
Dimensions	Overall length (mm)	714.5	715
	Overall width (mm)	529.4	474
	Overall height (Excluding exhaust pipe) (mm)	743	768
	Overall height (Including exhaust pipe) (mm)	–	–
Performance	Flywheel horsepower (HP/rpm)	50/2,450	62/2,300
	Maximum torque (kgm/rpm)	14.5/2,000	20.5/1,700
	High idling speed (rpm)	2,700 ± 50	2,500 ± 50
	Low idling speed (rpm)	700 ± 25	700 ± 25
	Minimum fuel consumption ratio (g/HPH)	185	160
Dry weight (kg)		245	TORQFLOW type: 235 Clutch type: 245
Fuel pump		Bosch type VE	Bosch type VE
Governor		Mechanical all-speed type	Mechanical all-speed type
Lubricating oil capacity (ℓ)		6.5	8
(Refill capacity)		(5.5)	(7)
Coolant capacity (ℓ)		9.6	9.7
Alternator		12V, 35A	24V, 15A
Starting motor		12V, 2.2 kW	24V, 2.8 kW
Battery		12V 80Ah x 1	12V 60Ah x 2
Turbocharger		–	–
Air compressor		–	–
Others		–	–

6D95L-1 (with in-line type pump)	6D95L-1 (with distributor type pump)	6D95L-1 (with distributor type pump)
FD35Z/40Z-4, FD35/40/45-4 FD33S/35S/40S/45S-4	FD35Z/40Z-4, FD35/40/45-4 FD33S/35S/40S/45S-4 SD23/25-3	FD50H/60H/70N-4
6 – 95 x 115	6 – 95 x 115	6 – 95 x 115
4,890	4,890	4,890
1 – 5 – 3 – 6 – 2 – 4	1 – 5 – 3 – 6 – 2 – 4	1 – 5 – 3 – 6 – 2 – 4
986	986	986
637	637	637
809	809	809
–	–	–
82/2,150	82/2,150	90/2,250
28/1,500	28/1,500	30/1,500
2,350 ± 50	2,350 ± 50	2,500 ± 50
700 ± 25	700 ± 25	700 ± 25
160	160	160
370	360	360
Bosch type PES-A	Bosch type VE	Bosch type VE
Bosch RSV centrifugal, all speed type	Mechanical all-speed type	Mechanical all-speed type
11	11	11
(9)	(9)	(9)
7.5	8.5	16
24V, 25A	24V, 15A	24V, 15A
24V, 4.5 kW	24V, 2.8 kW	24V, 2.8 kW
12V 70Ah x 2	12V 70Ah x 2	12V 70Ah x 2
–	–	–
–	–	–
–	–	–

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