SEBMW00601

SHOP MANUAL

KOMATSU®

WD900-3

WHEEL DOZER

MACHINE MODEL	SERIAL NO.
WD900-3	**50001 and up**

- This section gives only information related to the WD900–3 (wheel dozer).
  For information on other equipment, see the manual for the WA900–3.

- WD900–3 mount the SA12V140 engine.
  For details of the engine, see the 12V140 Series Engine Shop Manual.

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SPECIFICATIONS

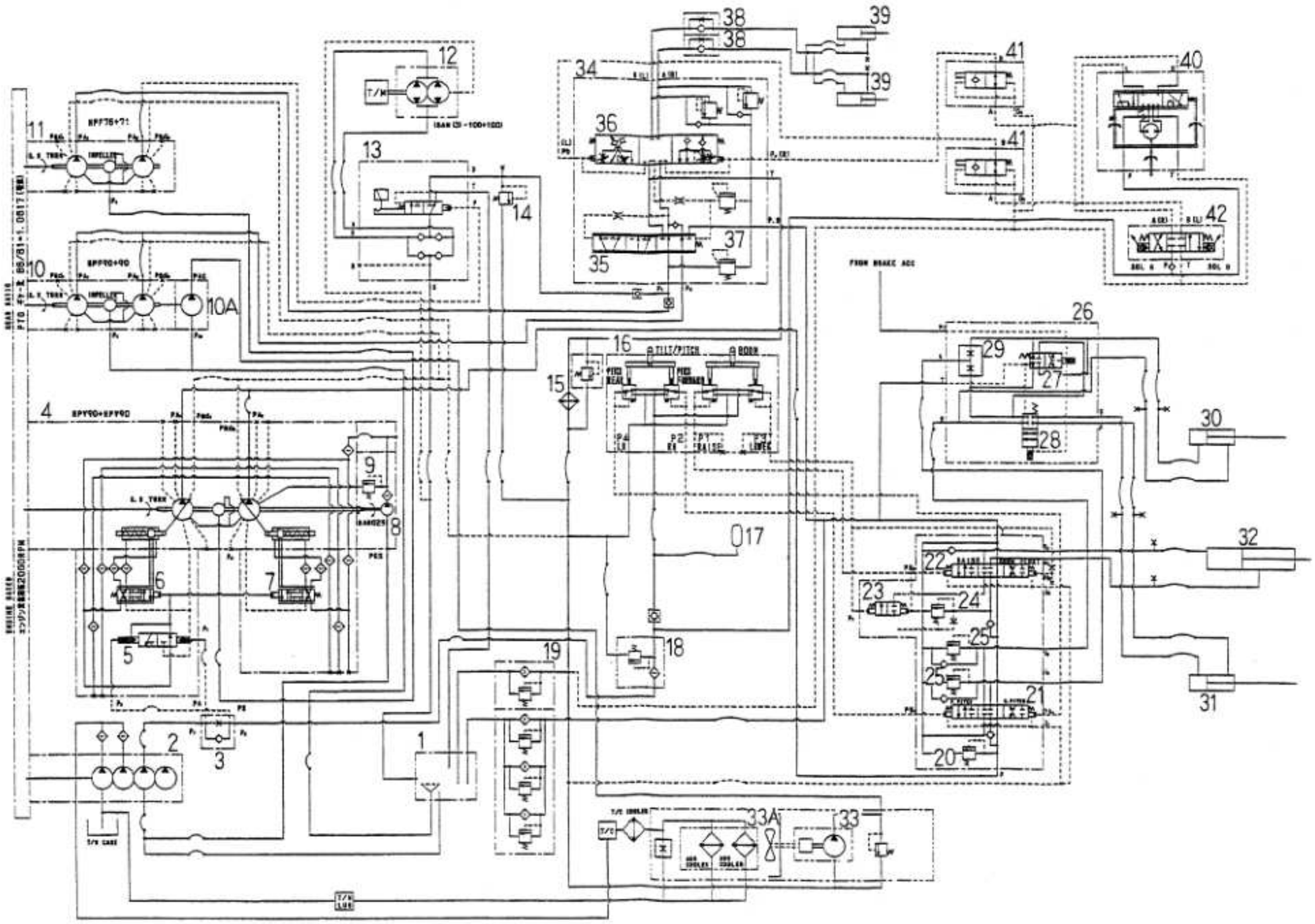
Machine model				WD900-3
Serial No.				50001 and up
Weight	Operating weight		kg	100,000
	Distribution(front)		kg	50,000
	Distribution(rear)		kg	50,000
Performance	Blade capacity		m3	26.0
	Travel speed	FORWARD 1st	km/h	7.0
		FORWARD 2nd	km/h	12.3
		FORWARD 3rd	km/h	28.0
		REVERSE 1st	km/h	7.1
		REVERSE 2nd	km/h	12.4
		REVERSE 3rd	km/h	28.3
	Max.rimpull		kN{kg}	686.5{70,000}
	Gradeability		deg	25
Dimensions	Min.turning radius	Center of outside wheel	mm	9,200
		Outside conner of blade	mm	11,285
	Overall length		mm	12,035
	Overall width w/o blade		mm	4,585
	Blade width		mm	6,470
	Brade height		mm	2,160
	Overall height(top of ROPS cab)		mm	5,215
	Wheelbase		mm	5,450
	Tread		mm	3,350
	Min.ground clearance		mm	480
Engine	Model			SA12V140
	Type			4-cycle,water-cooled,V type, 12-cylinder direct injection,with 2-turbocharger,after-cooler
	No.of cylinders-bore × stroke		mm	12-140 × 165
	Piston displacement		ℓ {cc}	30.48{30,480}
	Flywwheel horsepower		kW/rpm{HP/rpm}	637/2,000{853/2,000}
	Maximum torque		Nm/rpm{kgf/rpm}	4,090/1,300{417/1,300}
	Fuel consumption ratio		g/kW·h{g/HP·h}	200{145}
	High idling speed		rpm	2,220
	Low idling speed		rpm	650/850
	Starthing motor			24V7.5kW × 2
	Alternator			24V75A
	Battery			12V200Ah × 4

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Machine model				WD900-3
Serial No.				50001 and up
Power train	Torque converter			3-element,1-stage,single-phase (TCA51-1A)
	Transmission			Planetary gear,multiple-disc,hydraulically actuated,modulation type
	Reduction gear			Spiral bevel gear
	Differential			Straight bevel gear
	Final drive			Planetary gear,single reduction,oil bath
Axle,wheel	Drive type			Front/rear-wheel drive
	Front axle			Fixed-frame,full-floating
	Rear axle			Center pin support type,full-floating
	Tire			45/65 R45 XLDD1(L-4)
	Wheel rim			36.00×45WTB
	Inflation pressure		kPa{kg/cm²}	667{6.80}
Brake	Service brake			Front/rear wheel braking,separate front/rear wheel,wet disc, hydraulically actuated
	Parking brake			Mounted on front axle input shaft,dry disc,hydraulicall release spring apply
	Emergency brake			Parking brake is commonly used
Steering system	Type			Articulated type
	Structure			Fully hydraulically power steering
Hydraulic system	Hydraulic pump Delivery	Torque converter, transmission pump	ℓ/min	421 (Gear type:SAR(4)112+SAR(3)100)
		steering pump	ℓ/min	307 (Fixed capacity piston pump: HPF76+71)
		Switch pump	ℓ/min	405 (Variable capacity piston pump: HPF90+90)
		ADD cooler fan pump	ℓ/min	51 (Gear type:SAR(1)025)
		Front brake cooler pump	ℓ/min	67.8 (Gear type:SBL(1)24)
		Rear brake cooler pump	ℓ/min	67.8 (Gear type:SBR(1)24)
		PPC pump	ℓ/min	68 (Gear type:SAR(1)032)

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MACHINE WITH JOYSTICK STEERING



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