SEBM008403

SHOP MANUAL

KOMATSU®

D375A-3

MACHINE MODEL SERIAL NUMBER

D375A-3 **17001 and up**

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

- D375A-3 mounts the SA6D170-2 engine.
  For details of the engine, see the 6D170-2 Series Engine Shop Manual.

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SPECIFICATIONS

Machine model				D375A-3
Serial No.				17001 and up
Weight	Operating weight			
		• Bare tractor	kg	49,000
		• With above + semi U-dozer		59,540
		• With above + variable multi-shank ripper		66,260
		• With above + ROPS cab + air conditioner + seat belt + perforated side cover		67,500
Performance	Min. turning radius		m	4.2
	Gradeability		deg	30
	Stability (front, rear, left, right)		deg	35
	Speed ranges	Forward 1st	km/h	0 – 3.8
		Forward 2nd		0 – 6.8
		Forward 3rd		0 – 11.8
		Reverse 1st	km/h	0 – 5.1
		Reverse 2nd		0 – 9.2
		Reverse 3rd		0 – 15.8
	Ground pressure	Bare tractor	KPa (kg/cm²)	102.97 (1.05)
		With semi U-dozer		125.53 (1.28)
		With semi U-dozer + variable multi-shank ripper		139.25 (1.42)
		With above + ROPS cab + air conditioner + seat belt + perforated side cover		142.20 (1.45)
Dimensions	Overall length	Bare tractor	mm	5,770
		With semi U-dozer		7,635
		With semi U-dozer + variable multi-shank ripper		10,040
		With U-dozer + variable multi-shank ripper		10,405
	Overall width	Bare tractor	mm	3,230
		With semi U-dozer		4,695
		With U-dozer		5,140
	Overall height	To tip of exhaust pipe	mm	4,045
		To top of handrail at top of intake duct		3,295

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Machine model			D375A-3
Serial No.			17001 and up
Dimensions	Track gauge	mm	2,500
	Length of track on ground		3,815
	Track shoe width		610
	Min. ground clearance		620
Engine	Name		SA6D170-2
	Type		4-cycle, water-cooled, in-line, vertical type, direct injection, with turbocharger, aftercooler
	No. of cylinders – bore x stroke	mm	6 – 170 x 170
	Piston displacement	ℓ (cc)	23.15 (23,150)
	Performance: Rated horsepower	KW/rpm (HP/rpm)	392/1,800 (525/1,800)
	Performance: Max. torque	Nm/rpm (kgm/rpm)	2,618/1,300 (267/1,300)
	Performance: Max. speed at no load	(rpm)	1,960
	Performance: Min. speed at no load	(rpm)	700
	Performance: Min. fuel consumption ratio	g/KW•h (g/HP•h)	213 (157)
	Starting motor		24V, 7.5 KW x 2
	Alternator		24V, 50A
	Battery		12V, 170Ah x 2
	Radiator core type		D type
Power train system	Torque converter		3-element, single stage, single phase (with lock up clutch)
	Transmission		Planetary gear type, multiple disc clutch, hydraulically actuated, force-feed lubrication gear pump, forward 3 speed, reverse 3 speed
	Bevel gear shaft		Spiral bevel gear, splash type lubrication
	Steering clutch		Wet type, multiple clutch disc, spring boosted, hydraulically actuated (manual type), interconnected with brake
	Steering brake		Wet type, multiple clutch disc, spring boosted, hydraulically actuated (pedal operated, manually operated), interconnected with clutch
	Final drive		Spur gear 1-stage, planetary gear 1-stage reduction gear, splash type lubrication

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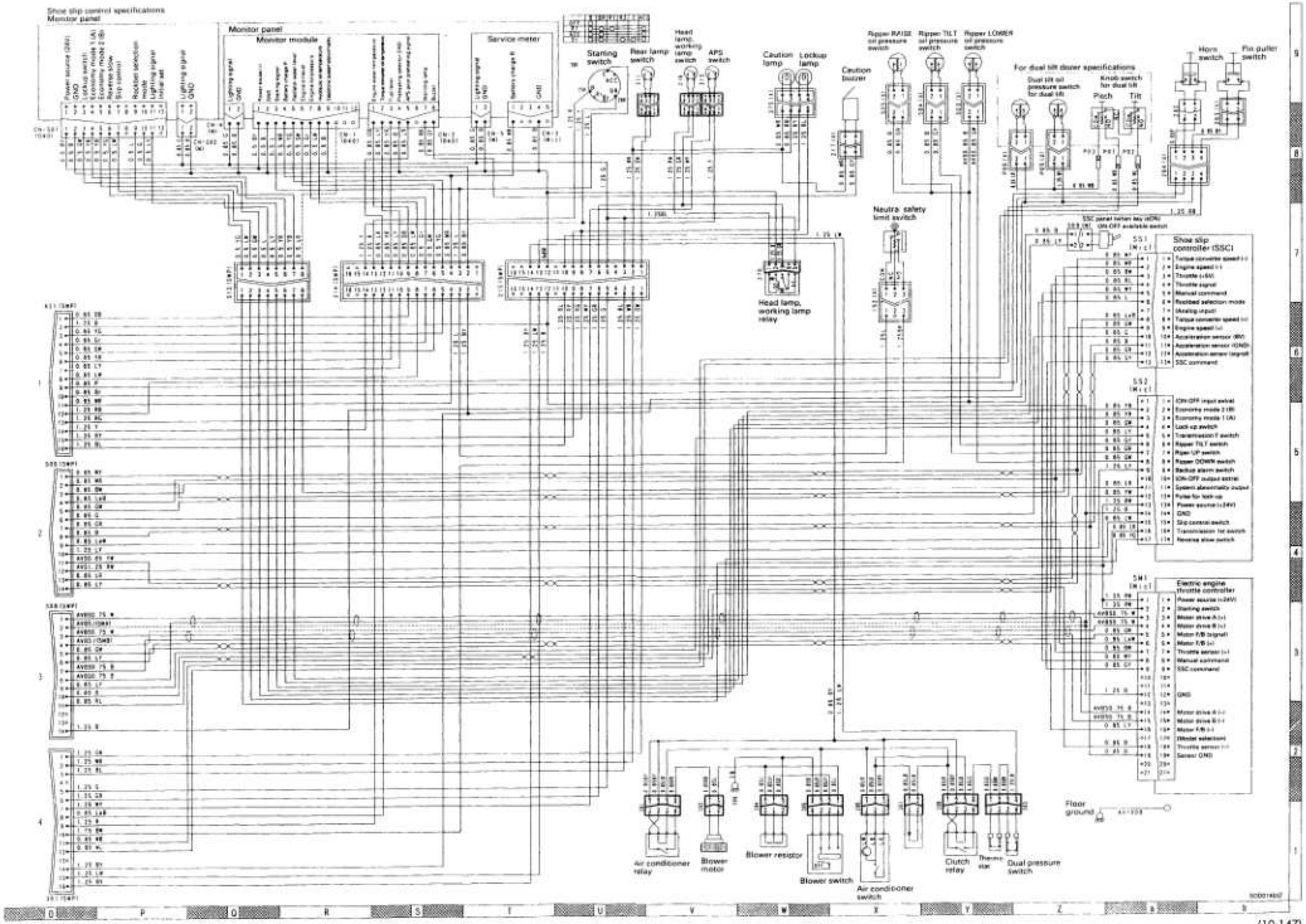
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Undercarriage	Suspension			Rigid, balancing beam type
	Carrier roller			2 on each side
	Track roller			6 on each side
	Track shoe			Assembly type, single grouser, 40 each side, pitch: 280.0 mm, width: 610 mm
Power train + lubrication pump (tandem)				Gear type (BAL112 + 160)
Scavenging pump (tandem)				Gear type (BAR63 + 200)
PPC charge pump (tandem with hydraulic pump)				Gear type (SAR(1)022)
Work equipment hydraulic system	Max. presssure		MPa (kg/cm²)	20.6 (210)
	Hydraulic pump	Type		Gear type , tandem (SAR(4)140 + (3)071)
		Discharge (at engine speed 1800 rpm)	ℓ/min	405
	Main control valve	Type		
		For blade lift		1-spool pilot spool type, with demand spool
		For blade tilt, ripper (Lo)		3-spool pilot spool type
		For ripper (Hi)		2-spool pilot spool type
	Type			Reciprocal, piston type
	Hydraulic cylinders	Dimensions of blade lift cylinder	Cylinder bore	150
			Outside diameter of piston rod	90
			Piston stroke	1,505
			Max. distance between pins	2,650
			Min. distance between pins	1,145
		Dimensions of blade tilt cylinder	Cylinder bore	225
			Outside diameter of piston rod	110
			Piston stroke	240
			Max. distance between pins	1,668
			Min. distance between pins	1,428

mm

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