SEBM003602

SHOP MANUAL

KOMATSU®

BR200-1 SERIES

MACHINE MODEL	SERIAL NO.
BR200-1	**1020 and up**
BR200J-1	**1201 and up**
BR200S-1	**1001 and up**
BR200R-1	**1001 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.

- BR200-1 series mount the S6D95L-1 engine.
  For details of the engine, see the 95 Series Engine Shop Manual.

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SPECIFICATIONS

BR200
BR200J-1
BR200J-1A

Machine model				BR200-1	BR200J-1	BR200J-1A
Serial No.				1020 – 1169	1201 and up	1501 and up
Type of machine				Crawler type, diesel engine drive		
Operating weight (kg)				19400	19500	
Performance	Max. dimensions of debris handled		(mm)	300 x 400 x 600		
	Travel speed		(km/h)	3.0 (both forward and reverse)		
	Gradeability		(deg)	30		
	Ground contact pressure (standard shoe width)		(kg/cm²)	0.49 (600 mm)		
			(kPa)	48.6 (600 mm)		
	Noise		(dB)	When operating: Max. 80 (at 7 m from machine)		
	Ground surface vibration		(dB)	When traveling: Max. 60		
			(dB)	When operating: Max. 60 (at 7 m from machine)		
Dimensions	Overall length		(mm)	6029		
	Overall width		(mm)	2500		
	Overall width of crawler		(mm)	2500		
	Overall height		(mm)	2950		
	Min. ground clearance (for transportation)		(mm)	260 (to bottom surface of belt conveyor)		
	Length of track on ground		(mm)	3260		
	Track gauge		(mm)	1900		
Engine	Model			Komatsu S6D95L-1 diesel engine		
	Type			4-cycle, water cooled, in-line vertical, direct injection type with turbocharger		
	Piston displacement		(cc)	4891		
	Performance	Flywheel horsepower	(kW(HP)/rpm)	91.9 (123.3)/2050		
		Max. torque	(kgm/rpm)	48.5/1500		
		High idling speed	(rpm)	2260 ± 60		
		Low idling speed	(rpm)	900 ± 25		
		Min. fuel consumption ratio	(g/kWh (g/HPh))	200 (152)		
	Fuel system	Fuel		Diesel fuel (ASTM D975 No. 1 or No. 2)		
		Governor		Centrifugal, all speed type		
	Lubrication system	Lubrication method		Gear pump force feed		
		Filtering method		Full flow		
		Cooling method		Water cooling		

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Machine model				BR200-1	BR200J-1	BR200J-1A
Serial No.				1020 – 1169	1201 and up	1501 and up
Engine	Cooling type			Fan: Suction type Radiator: Compression type		
	Air cleaner			Combined centrifugal and paper filter type		
	Starting motor			24V, 5.5 kW		
	Alternator			24V, 25 A		
	Battery			12V, 110Ah x 2		
Travel power train	Drive method and reduction gear type			Hydraulic drive, eccentric differential type		
	Steering method			Independent drive for left and right		
Undercarriage	No. of rollers	Carrier roller		2 on each side		
		Track roller		7 on each side		
	Track	Track shoe type		Assembly type triple grouser		
		Track shoe width	(mm)	Standard: 600		
		Tension adjuster		Grease cylinder type with cushion spring		
	Travel brake type			Hydraulic lock		
Crusher	Model			KS 3015 single toggle crusher		FS 3015 single toggle crusher
	Nominal dimensions		(mm)	760 x 380		750 x 380
	Rotating speed		(rpm)	300		
	Drive method			Hydraulic motor V-belt drive		
Hydraulic equipment (travel and work equipment)	Hydraulic pump	For travel, crusher	Type, No.	Variable displacement piston pump (swash plate) x 2		
			Discharge amount	(ℓ/min)	2 x 191 (At engine rated speed of 2050 rpm)	
			Max. pressure	(kg/cm²)	325	
				(MPa)	31.9	
			Drive method		Connected directly to engine	
		For feeder, conveyor	Type, No.		Fixed displacement gear pump x 2	
			Discharge amount	(ℓ/min)	2 x 22 (At engine rated speed of 2050 rpm)	
			Max. pressure	(MPa (kg/cm²))	For feeder: 11.8 (120) For conveyor: 8.8 (90)	For feeder: 20.6 (210) For conveyor: 20.6 (210)
			Drive method		Timing belt drive	
	Control valve	Type, No.			4-spool type + 5-spool type x 1	
		Operating method			Hydraulic assist type	

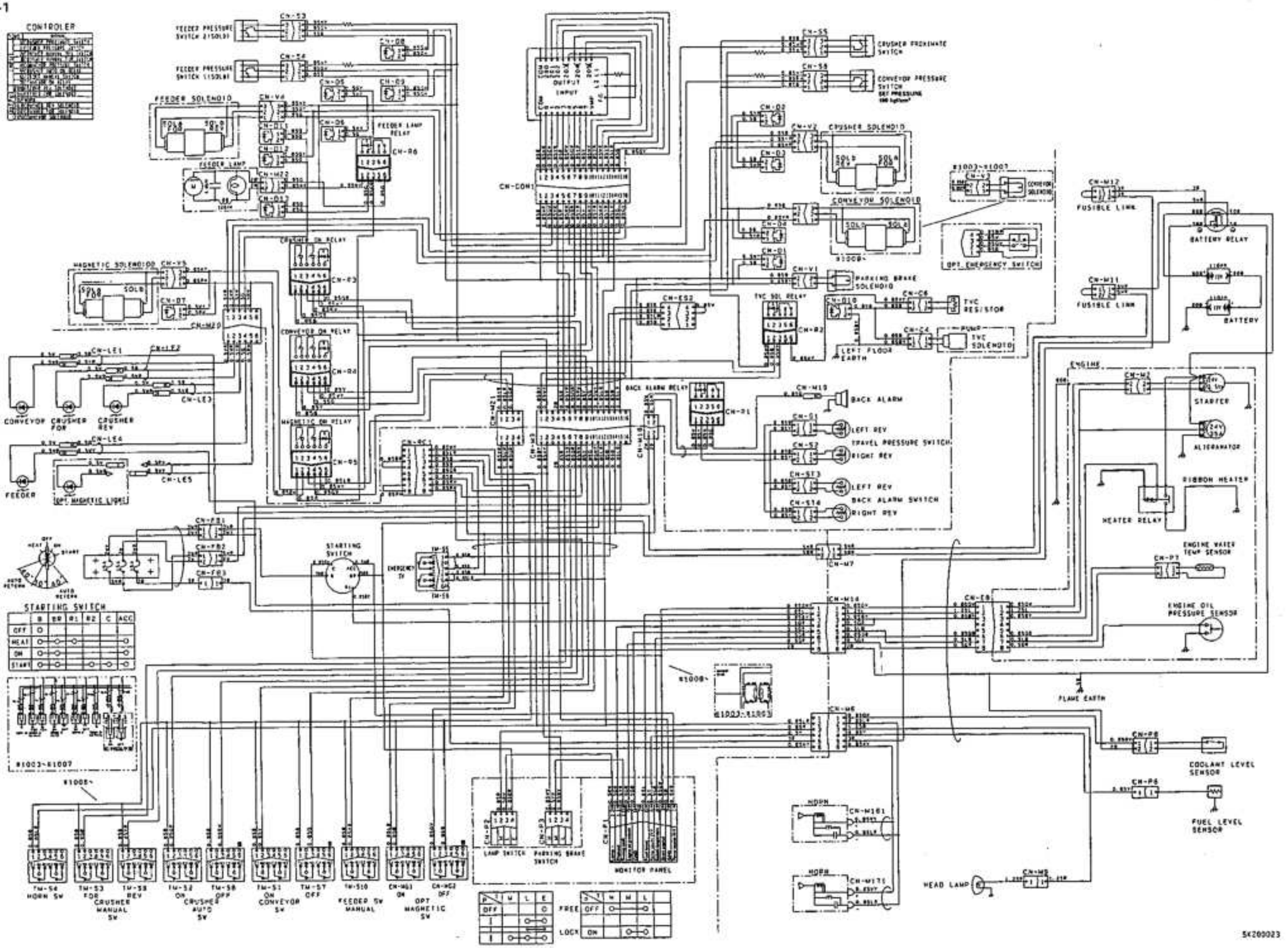
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Machine model			BR200-1	BR200J-1	BR200J-1A
Serial No.			1020 – 1169	1201 and up	1501 and up
Hydraulic equipment (travel and work equipment)	Hydraulic motor	Travel	Piston type x 2		
		Crusher	Piston type x 1		
		Feeder	Piston type x 1		
		Conveyor	Gear type x 1		
	Hydraulic tank		Sealed, box type		
	Hydraulic filter		Tank return side		
	Hydraulic cooler		Air cooled		
	Additional hydraulic equipment		Solenoid valve x 4		
	Levers and pedals	For engine control	Governor control lever x 1		
		Steering and travel	Travel lever x 2		
		Feeder control	Feeder switch 1 set (ON/OFF)		
		Conveyor control	Conveyor switch 1 set (ON/OFF)		
		Emergency stop switch	(For stopping work equipment) 1		
		Travel parking brake switch	1		
		Crusher control	Crusher switch 1 set (ON/OFF)	Crusher switch 1 set (ON/OFF) Crusher REVERSE switch x 1	
Electrical equipment	Gauges	Coolant temperature gauge	x 1 — Installed to monitor panel supplied with control box		
		Fuel gauge	x 1		
		Engine oil pressure caution monitor	x 1		
		Charge caution monitor	x 1		
		Preheating pilot monitor	x 1		
		Service meter	x 1		
		Lamp switch	x 1		
		Starting switch	x 1 — Installed to control box		
		Horn switch	x 1 — Installed to control box		
	Lighting	Front lamp	x 1		
	Others	Backup alarm buzzer	x 1		
Lubricant and water types and capacities	Coolant	(ℓ)	19.7		
	Lubricating oil	Engine oil (ℓ)	19.5		
		Travel reduction gear (left and right, each) (ℓ)	4		
		Hydraulic oil (ℓ)	230		
	Fuel	(ℓ)	310		

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