SEBM004703

SHOP MANUAL

KOMATSU®

BR300J-1
BR310JG-1

MACHINE MODEL	SERIAL NO.
BR300J-1	**1001 and up**
BR310JG-1	**1002 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.

- BR300J-1 and BR310JG-1 mount the SA6D95L engine.
  For details of the engine, see the 95 Series Engine Shop Manual.

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Machine model			BR300J-1	BR310JG-1
Engine			1001 and up	1002 and up
Hydraulic system	Control valve	Type x No.	4-spool + 5-spool type x 1	
		Control method	Hydraulically assisted	
	Hydraulic motors	Travel	Piston type x 2	Piston type x 2
		Crusher	Piston type x 1	Piston type x 1
		Feeder	Piston type x 1	Gear type x 1
		Conveyor	Gear type x 1	Gear type x 1
	Hydraulic oil tank		Box-shaped, closed	
	Hydraulic oil filter		Tank return side	
	Hydraulic oil cooler		Air cooled	
	Auxiliary hydraulic equipment		Solenoid valve x 4	
	Levers and pedals	For engine control	Governor control lever: 1	Governor control lever: 1
		For steering and travelling	Travel lever: 2	Travel lever: 2
		For crusher control	Crusher switch: 1 pair (ON/OFF)	Crusher switch: 1 pair (ON/OFF)
			–	Crusher reverse switch: 1
		For feeder control	Conveyor switch: 1 pair (ON/OFF)	Conveyor switch: 1 pair (ON/OFF)
		Emergency stop switch	(For stopping the work equipment) 1	(For stopping the work equipment) 1
		Parking brake switch	1	1
Electrical system	Gauges	Engine water temperature gauge	1 — Installed on the monitor panel attached to the control box.	
		Fuel level gauge	1	
		Engine hydraulic caution monitor	1	
		Charge caution monitor	1	
		Preheat pilot monitor	1	
		Service-meter	1	
		Lamp switch	1	
		Starting switch	1 — Installed on the control box.	
		Horn switch	1	
	Lighting	Head light	1	
	Others	Reverse travel alarm	1	

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WEIGHT TABLE

Unit: kg

	Machine model	BR300J-1	BR310JG-1
	Serial No.	1001 and up	1002 and up
Engine	Cylinder head assembly	40	
	Hydraulic cooler assembly	55	
	Radiator, hydraulic cooler assembly	80	
	Air cleaner assembly (with bracket)	35	
	Engine, main pump assembly	750	
Power train	Final drive assembly	340	
	Sprocket	40	
	Crusher motor assembly	220	
	Plate feeder motor assembly	60	
	Travle motor assembly	70	
Hydraulic system	Main pump assembly	210	
	Control valve assembly	180	
Undercarriage	Track frame assembly	4630	
	Idler, recoil spring assembly	270	
	Recoil spring assembly	140	
	Idler assembly	130	
	Track roller assembly	40	
	Carrier roller assembly	25	
Work equipment	Crusher assembly	12500	
	Plate feeder assembly	450	2700
	Hopper assembly	1670	892
	Frame assembly	870	640
	Belt conveyor assembly	525	500

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LIST OF LUBRICANT AND WATER

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE 14 32 50 68 86°F / −10 0 10 20 30°C	CAPACITY (ℓ) Specified	CAPACITY (ℓ) Refill
Engine oil pan	Engine oil	SAE 30 / SAE 10W / SAE 10W-30 / SAE 15W-40	19.5	18.5
Damper case	Engine oil	SAE 30	1.0	–
Plate feeder motor	Engine oil	SAE 30	0.6	0.6
Final drive case (each)	Engine oil	SAE 30	3.7	3.7
Hydraulic system	Engine oil	SAE 10W / SAE 10W-30 / SAE 15W-40	230	170
Carrier roller (1 piece)	Gear oil	SAE 140	0.19 – 0.21	0.19 – 0.21
Track roller (1 piece)	Gear oil	SAE 140	0.23 – 0.25	0.23 – 0.25
Idler (1 piece)	Gear oil	SAE 140	0.07 – 0.08	0.07 – 0.08
Fuel tank	Diesel fuel	* / ASTM D975 No. 2	310	–
Cooling system	Water	Add antifreeze	19.7	–

* ASTM D975 No. 1

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NOTE:

(1) When fuel sulphur content is less than 0.5%, change oil in the oil pan every periodic maintenance hours described in this manual. Change oil according to the following table if fuel sulphur content is above 0.5%.

Fuel sulphur content	Change interval of oil in engine oil pan
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

(2) When starting the engine in an atmospheric temperature of lower than 0°C, be sure to use engine oil of SAE10W, SAE10W-30 and SAE15W-40 even though an atmospheric temperature goes up to 10°C more or less in the day time.

(3) Use API classification CD as engine oil and if API classification CC, reduce the engine oil change interval to half.

(4) There is no problem if single grade oil is mixed with multigrade oil (SAE10W-30, 15W-40), but be sure to add single grade oil that matches the temperature in the table on the left.

(5) We recommend Komatsu genuine oil which has been specifically formulated and approved for use in engine and hydraulic work equipment applications.

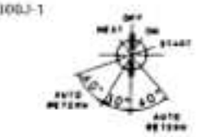
ASTM: American Society of Testing and Material
SAE: Society of Automotive Engineers

Specified capacity: Total amount of oil including oil for components and oil in piping
Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance

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ELECTRICAL CIRCUIT DIAGRAM

BR300J-1



STARTING SWITCH

	B	BR	R1	R2	C	ACC
OFF	○					
HEAT	○		○			○
ON	○		○		○	○
START	○			○	○	

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