TEN00476-02

Operation & Maintenance Manual

MOBILE CRUSHER **BR380JG-1E0**

SERIAL NUMBERS 2621 and up

ecot3

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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OUTLINE OF SERVICE

- Always use Komatsu genuine parts for replacement parts, grease or oil.
- When changing the oil or adding oil, do not mix different types of oil. When changing the type of oil, drain all the old oil and fill completely with the new oil. Always replace the filter at the same time. (There is no problem if the small amount of oil remaining in the piping mixes with the new oil.)
- Unless otherwise specified, when the machine is shipped from the factory, it is filled with the oil and coolant listed in the table below.

Item	Type
Engine oil pan	Engine oil EO15W40DH (Komatsu genuine parts)
Damper case	Power train oil TO30 (Komatsu genuine parts)
Jaw crusher motor bearing case	
Final drive case	
Grizzly feeder vibrator case	
Hydraulic oil system	Power train oil TO10 (Komatsu genuine parts)
Radiator	Supercoolant (AF-NAC) (Komatsu genuine parts)(density: 30% or above)

HANDLING AND PERFORMANCE OF OIL CLINIC FOR OIL, FUEL, COOLANT

OIL

- Oil is used in the engine and hydraulic equipment under extremely severe conditions (high temperature, high pressure), and deteriorates with use.
  Always use oil that matches the grade and maximum and minimum ambient temperatures recommended in the Operation and Maintenance Manual. Even if the oil is not dirty, always change the oil at the specified interval.
- Oil corresponds to blood in the human body, always be careful when handling it to prevent any impurities (water, metal particles, dirt, etc.) from getting in.
  The majority of problems with the machine are caused by the entry of such impurities.
  Take particular care not to let any impurities get in when storing or adding oil.
- Never mix oils of different grades or brands.
- Always add the specified capacity of oil.
  Having too much oil or too little oil are both causes of problems.
- If the oil in the work equipment is not clear, there is probably water or air getting into the circuit. In such cases, consult your Komatsu distributor.
- When changing the oil, always replace the related filters at the same time.
- We recommend you have an analysis made of the oil periodically to check the condition of the machine. For those who wish to use this service, consult your Komatsu distributor.
- When using commercially available oil, it may be necessary to reduce the oil change interval.
  We recommend that you use the Komatsu oil clinic to perform a detailed checks of the characteristics of the oil.

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SPECIFICATIONS

	Items		Unit	BR380JG-1E0
	Overall machine weight (including magnetic separator, fuel and coolant)		kg (lb)	34,000 (74,970)
	Name of engine		-	KOMATSU SAA6D107 diesel engine
	Type of engine		-	Direct injection + turbocharger + aftercooler
	Rated horsepower of engine		kW(HP/rpm)	140/2,050 (190/2,050)
A	Overall length		mm (ft in)	12,500 (41' 0")
B	Overall height		mm (ft in)	3,200 (10' 6")
C	Overall width (when transportation)		mm (ft in)	2,810 (9' 3")
D	Track shoe width		mm (ft in)	500 (1' 8")
E	Track gauge		mm (ft in)	2,280 (7' 6")
F	Track length on ground		mm (ft in)	3,275 (10' 9")
	Fuel tank		Liter (US gal)	400 (105.68)
	Hydraulic oil tank		Liter (US gal)	209 (55.22)
	Travel drive method		-	Hydraulic type
	Travel speed (max.)		km/h (MPH)	3.0 (1.9)
	Gradeability		Degree	25
Hopper		Type	-	Fixed type
		Capacity	m^3(cu.yd)	3.5 (4.6) [Including the top surface of a glizzly bar]
Feeding device		Method	-	Grizzly feeder with vibration controller
		Trough dimensions width x length [excluding glizzly bar]	mm (ft in)	1,000 x 3,220 [1,625] (3' 3" x 10' 7" [5' 4"])
Crusher		Jaw crusher (Type)	-	42 x 22
		Weight	kg (lb)	13,525 (29,823)
		Crsher drive method	-	Hydraulic type
		Dimensions of max. crushable debris	mm (ft in)	Natural rock: 425 x 425 x 425 (1' 5" x 1' 5" x 1' 5") Concrete debris: 1000 x 475 x 900 (3' 3" x 1' 7" x 2' 11")
Magnetic separator		Type	-	HPK105B-N1
		Weight	kg (lb)	1,200 (2,646)
		Drive type	-	Hydraulic type
		Conveyor belt (width)	mm (ft in)	750 (2' 6")
		Belt rotating speed	m/min (FPM)	70 (231)
Primary conveyor		Belt (width x length)	mm (ft in)	1,050 x 20,400 (3' 5" x 66' 11")
		Belt rotating speed	m/min (FPM)	120 (396)

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WORK EQUIPMENT OPERATION WITH RADIO CONTROL

⚠ WARNING

When the radio control selector switch on the machine is set to the RADIO CONTROL position (a), it becomes possible to carry out operations with the radio control. Always check first that the switches on the transmitter are not being pressed by mistake.

The radio control can be used to start (one-touch start) or stop (one-touch stop) the work equipment and to start or stop the feeder.
When starting or stopping optional equipment (secondary conveyor, vibratory sieve) or when individually starting or stopping items of work equipment other than the feeder, carry out the operation with the control box on the machine itself. Note that one-touch stop and stopping of the feeder can be carried out from the control box.

PREPARATIONS FOR PRIMARY CONVEYOR

Lower the conveyor. For details, see "PREPARATIONS FOR PRIMARY CONVEYOR (PAGE 3-98)".

PREPARATIONS FOR MUCK DISCHARGE CONVEYOR

(when used)

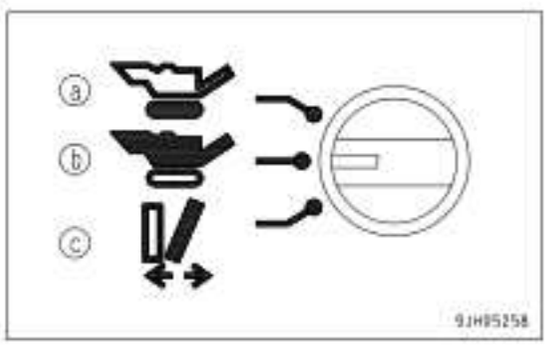
Extend the muck discharge conveyor (if equipped). For details, see "PREPARATIONS FOR MUCK DISCHARGE CONVEYOR (PAGE 3-99)".

PREPARATIONS FOR GRIZZLY FEEDER

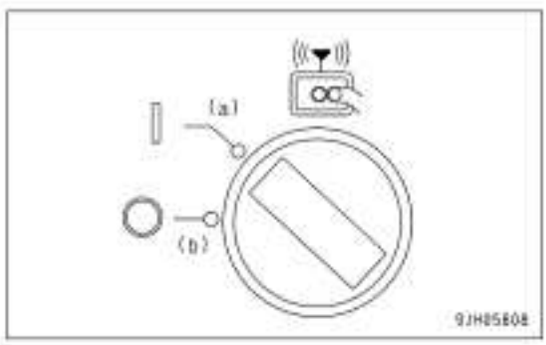
Remove the grizzly feeder lock pin. For details, see "PREPARATIONS FOR GRIZZLY FEEDER (PAGE 3-99)".

PROCEDURE FOR CARRYING OUT OPERATIONS USING RADIO CONTROL

1. After starting the engine, set the mode selector switch to the OPERATION position (b).



2. Set the radio control selector switch on the machine to the RADIO CONTROL position (a).



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