TEN00519-04

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

HB205 -1
HB215LC-1

SERIAL NUMBERS 1001 and up

Hybrid

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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SUN ROOF

WARNING

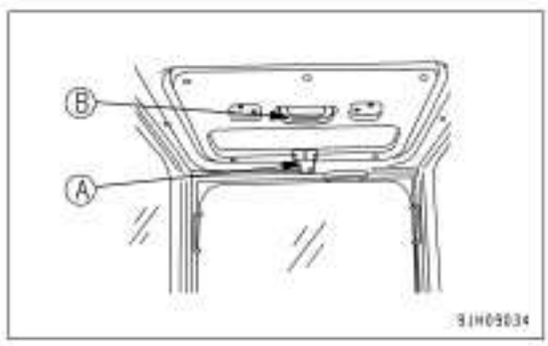
When leaving the operator's seat, set the lock lever securely to the LOCK position.
If the lock lever is at the FREE position and the control levers or control pedals is touched by mistake, this may lead to a serious accident.

Opening

1. Set the lock lever (1) securely to the LOCK position (L).



2. Push up lock (A) in the front center of the roof window and check that the lock is released. Then hold grip (B) and push up the roof window.



Closing

Hold grasping grip (B), lower the ceiling window, and apply lock (A). If the lock cannot be applied, open the ceiling window, then pull it in again and apply the lock.

WINDSHIELD

WARNING

- **When opening or closing the front window, bottom window, or door, always set the lock lever to the LOCK position. If the lock lever is at the FREE position and the control levers or control pedals is touched by mistake, this may lead to a serious accident.**
- **When opening or closing the front window, stop the machine on horizontal ground, lower the work equipment completely to the ground, stop the engine, then carry out the operation.**
- **When opening the front window, hold the grip securely with both hands, pull up, and do not let go until the automatic lock catch is locked.**
- **When closing the front window, the window will move quicker under its own weight. Hold the grips securely with both hands when closing it.**

It is possible to stow (pull up) the front window in the roof of the operator's compartment.

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TIGHTENING TORQUE SPECIFICATIONS

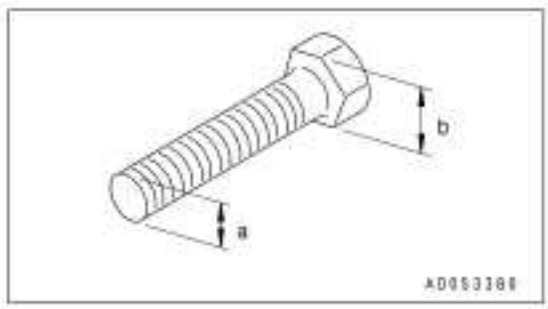
TIGHTENING TORQUE LIST

⚠ CAUTION

If nuts, bolts, or other parts are not tightened to the specified torque, it will cause looseness or damage to the tightened parts, and this will cause failure of the machine or problems with operation.
Always pay careful attention when tightening parts.

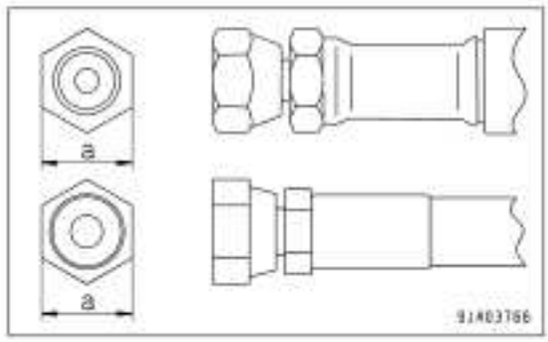
Unless otherwise specified, tighten the metric nuts and bolts to the torque shown in the table below.
If it is necessary to replace any nut or bolt, always use a Komatsu genuine part of the same size as the part that was replaced.

Thread diameter of bolt (a)(mm)	Width across flats (b)(mm)	Tightening torque					
		Target value			Service limit		
		Nm	kgm	lbft	Nm	kgm	lbft
6	10	13.2	1.35	9.8	11.8 to 14.7	1.2 to 1.5	8.7 to 10.8
8	13	31	3.2	23.1	27 to 34	2.8 to 3.5	20.3 to 25.3
10	17	66	6.7	48.5	59 to 74	6.0 to 7.5	43.4 to 54.2
12	19	113	11.5	83.2	98 to 123	10.0 to 12.5	72.3 to 90.4
14	22	172	17.5	126.6	153 to 190	15.5 to 19.5	112.1 to 141
16	24	260	26.5	191.7	235 to 285	23.5 to 29.5	170.0 to 213.4
18	27	360	37	267.6	320 to 400	33.0 to 41.0	238.7 to 296.6
20	30	510	52.3	378.3	455 to 565	46.5 to 58.0	336.3 to 419.5
22	32	688	70.3	508.5	610 to 765	62.5 to 78.0	452.1 to 564.2
24	36	883	90	651	785 to 980	80.0 to 100.0	578.6 to 723.3
27	41	1295	132.5	958.4	1150 to 1440	118.0 to 147.0	853.5 to 1063.3
30	46	1720	175.0	1265.8	1520 to 1910	155.0 to 195.0	1121.1 to 1410.4
33	50	2210	225.0	1627.4	1960 to 2450	200.0 to 250.0	1446.6 to 1808.3
36	55	2750	280.0	2025.2	2450 to 3040	250.0 to 310.0	1808.3 to 2242.2
39	60	3280	335.0	2423.1	2890 to 3630	295.0 to 370.0	2133.7 to 2676.2



• Apply the following table for Hydraulic Hose.

Hose nominal number	Width across flat a (mm)	Tightening torque					
		Target valve			Service limit		
		Nm	kgm	lbft	Nm	kgm	lbft
02	19	44	4.5	32.5	35 to 54	3.5 to 5.5	25.3 to 47.0
03	22	74	7.5	54.2	54 to 93	5.5 to 9.5	39.8 to 68.7
	24	78	8.0	57.9	59 to 98	6.0 to 10.0	43.4 to 72.3
04	27	103	10.5	75.9	84 to 132	8.5 to 13.5	61.5 to 97.6
05	32	157	16.0	115.7	128 to 186	13.0 to 19.0	94.0 to 137.4
06	36	216	22.0	159.1	177 to 245	18.0 to 25.0	130.2 to 180.8



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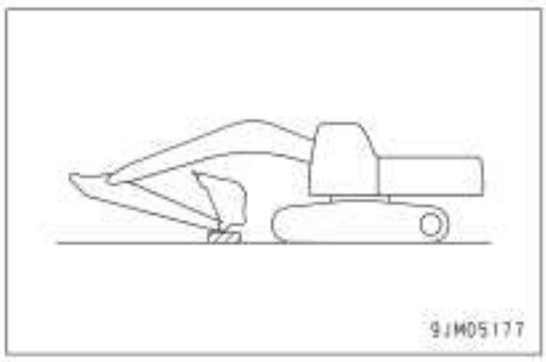
EVERY 100 HOURS MAINTENANCE

LUBRICATING

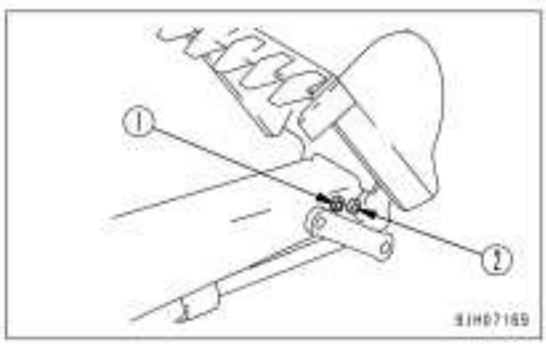
NOTICE

- **If any abnormal noise is generated from any greasing point, carry out greasing regardless of the greasing interval.**
- **Carry out greasing every 10 hours for the first 50 hours on a new machine.**
- **After the machine was subjected to jobs in the water, be sure to grease the wet pins.**

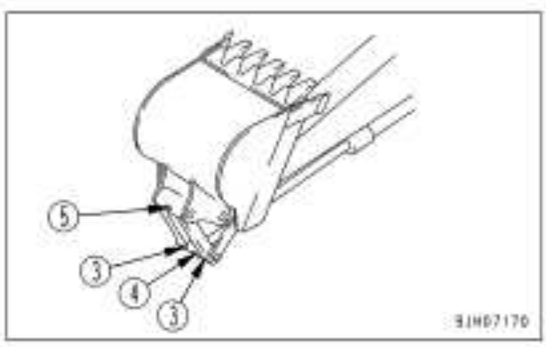
1. Set the machine to the greasing posture shown on the right, lower the work equipment to the ground, then stop the engine.
2. Using a grease pump, pump in grease through the grease fittings shown by arrows.
3. After greasing, wipe off any old grease that was pushed out.



(1) Arm-Link coupling pin (1 place)
(2) Arm - Bucket coupling pin (1 place)



(3) Link coupling pin (2 places)
(4) Bucket cylinder rod pin (1 place)
(5) Bucket-Link coupling pin (1 place)



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